

DOCUMENT RESUME

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SE 051 191

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ABSTRACT

Mathematics and the use of mathematical thinking is much more than what has been traditional school arithmetic. Much of the mathematical reasoning can be developed and experienced out of school, particularly in the home. This material contains recording forms and worksheets for activities for the Level Two experiences. Pupils are to complete these as part of their learning experiences. Forms and worksheets are included for all of the concepts and skills of the Level Two program. (YP)

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MEANINGFUL MATHEMATICS

LEVEL TWO

RECORDING FORMS AND WORKSHEETS FOR PUPIL USE

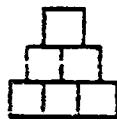
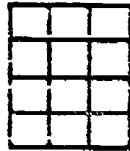
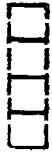
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PATTERN TILE WORKSHEET

Here are the first three in tile patterns. Make the next two and record these by coloring in squares on your form:



MATHEMATICIAN: _____

MY TILE PATTERNS

This image shows a full page of blank graph paper. The grid consists of small squares formed by thin black lines. In the bottom left corner, there is a logo for ERIC (Educational Resources Information Center) with the text "Full Text Provided by ERIC". In the bottom center, the number "4" is printed.

MATHEMATICIAN: _____

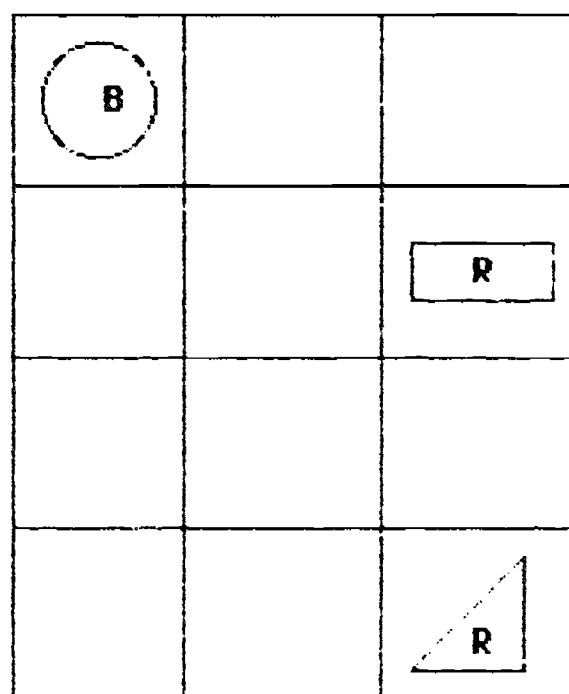
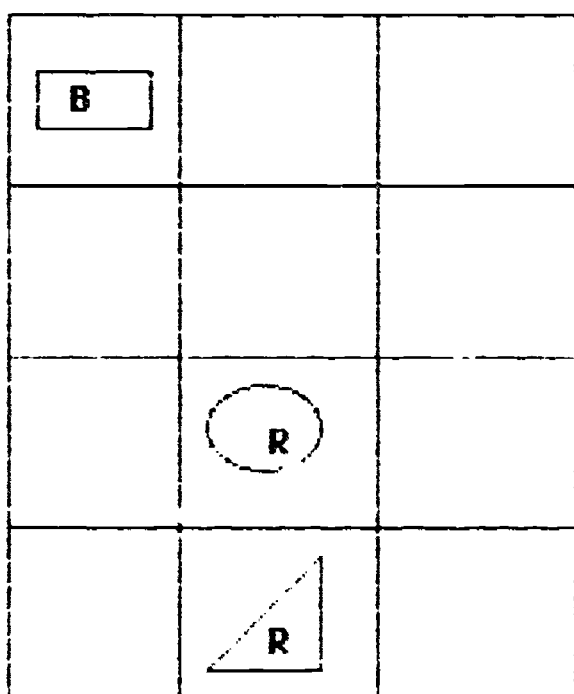
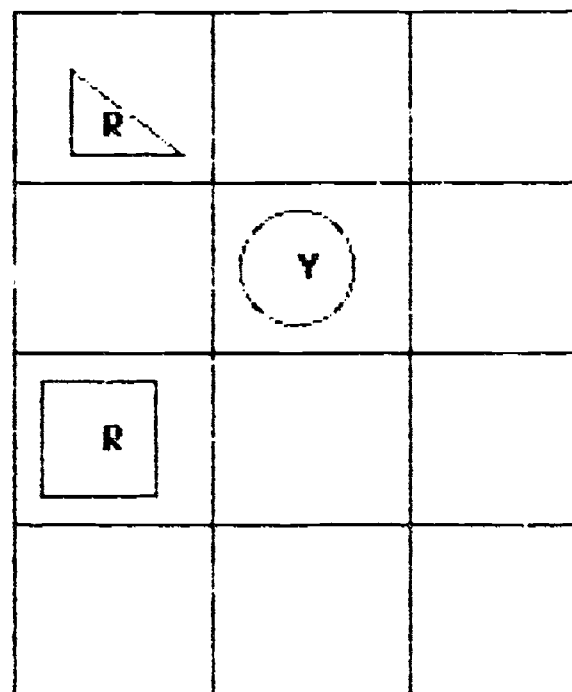
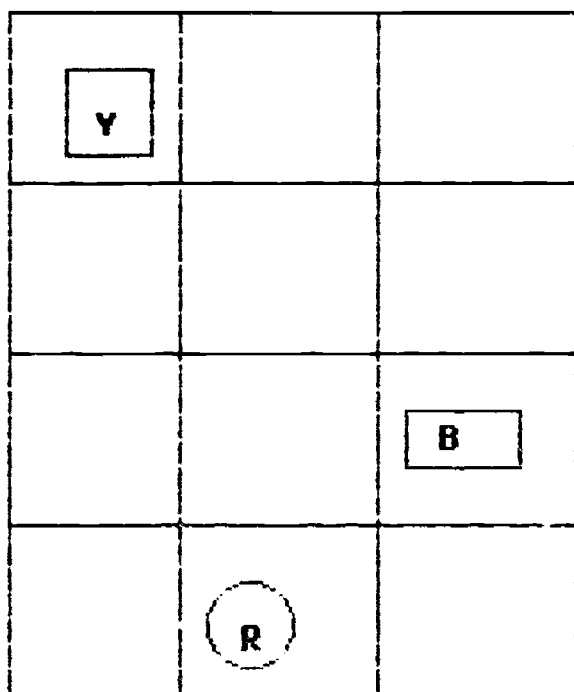
My Rod Pattern

I used _____ Rods.

CAN YOU fill in the outline with that many rods?

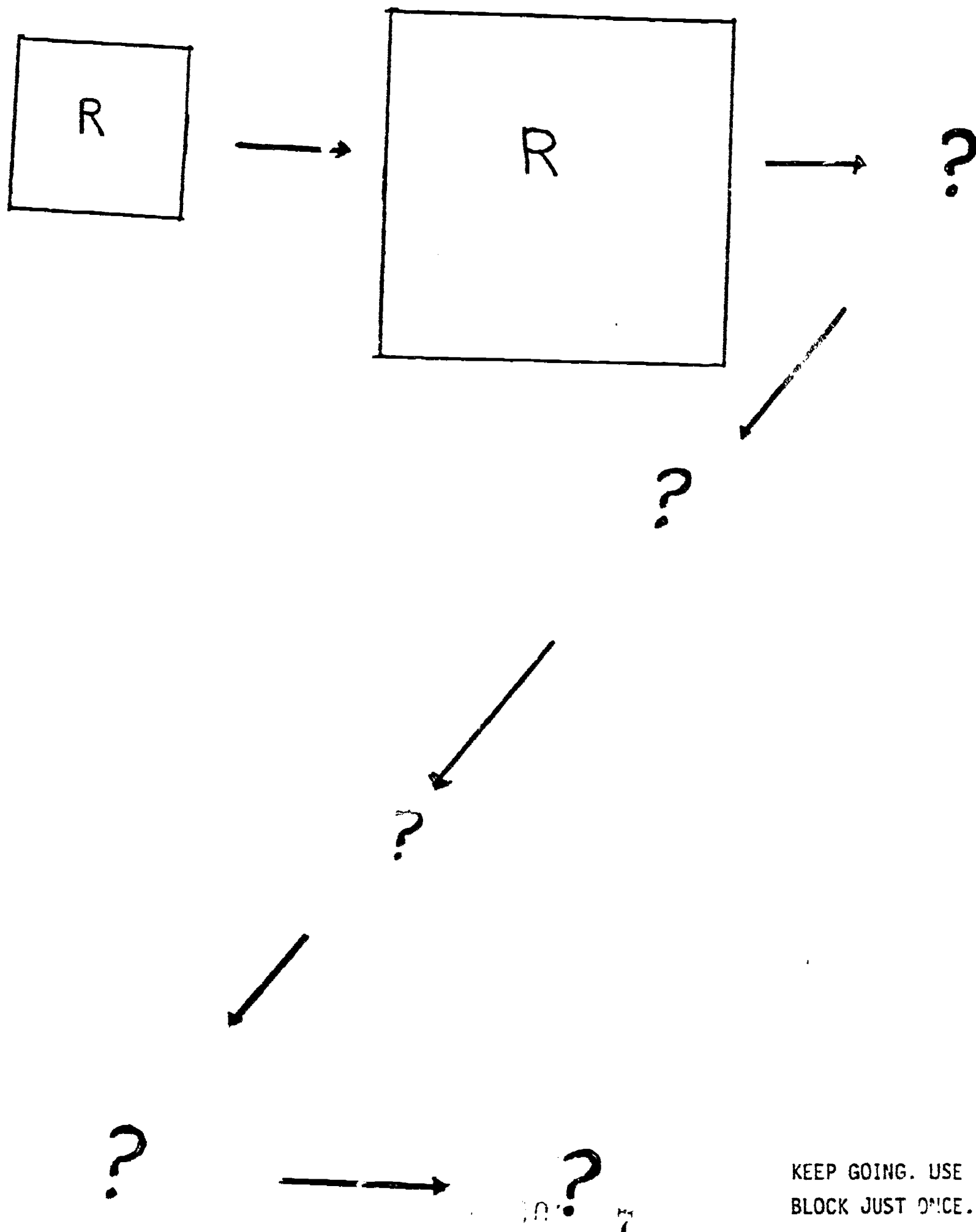
MATHEMATICIAN: _____

I Used Blocks to Complete These



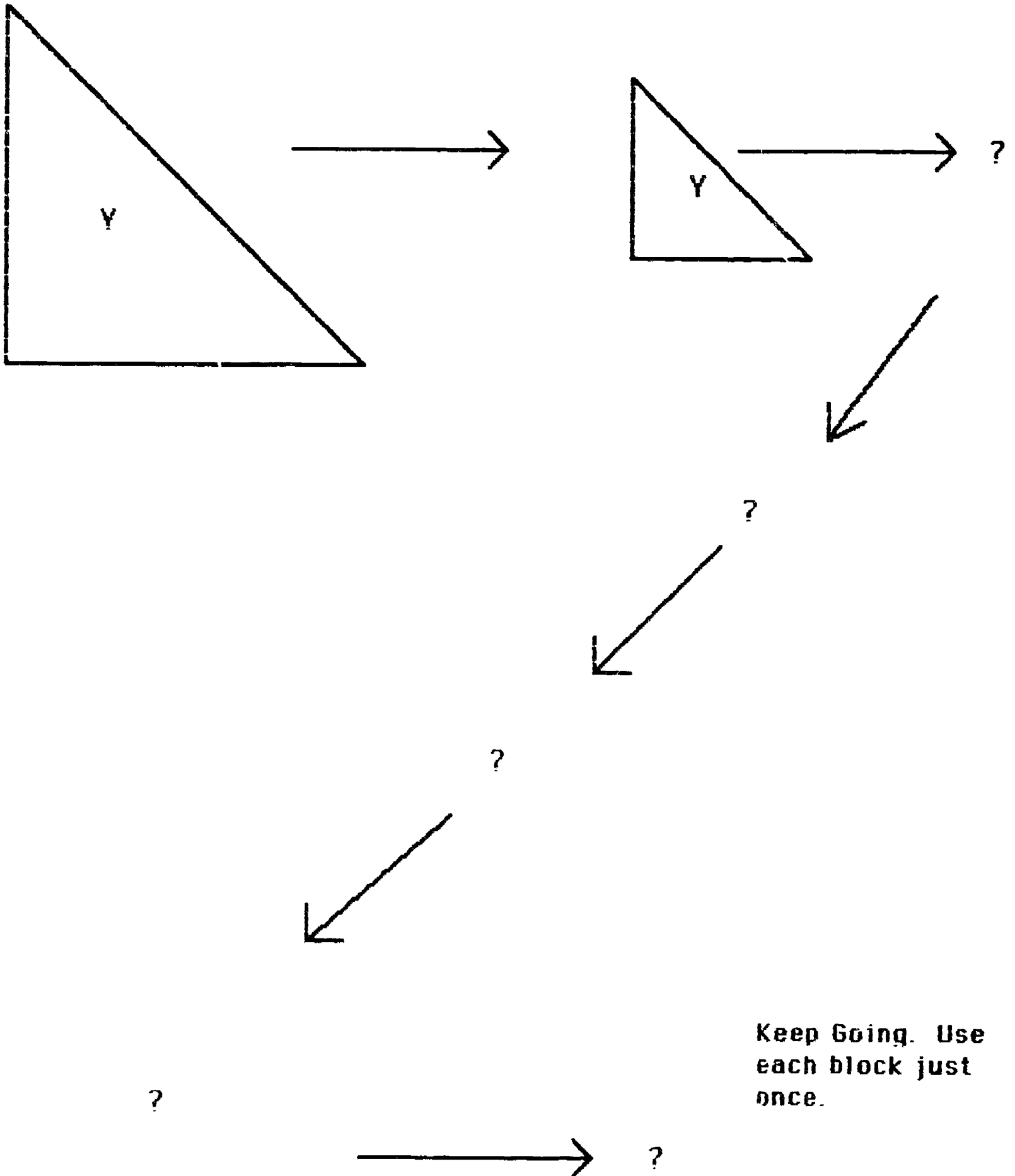
A ONE DIFFERENCE TRAIN

Use ALL of the blocks.



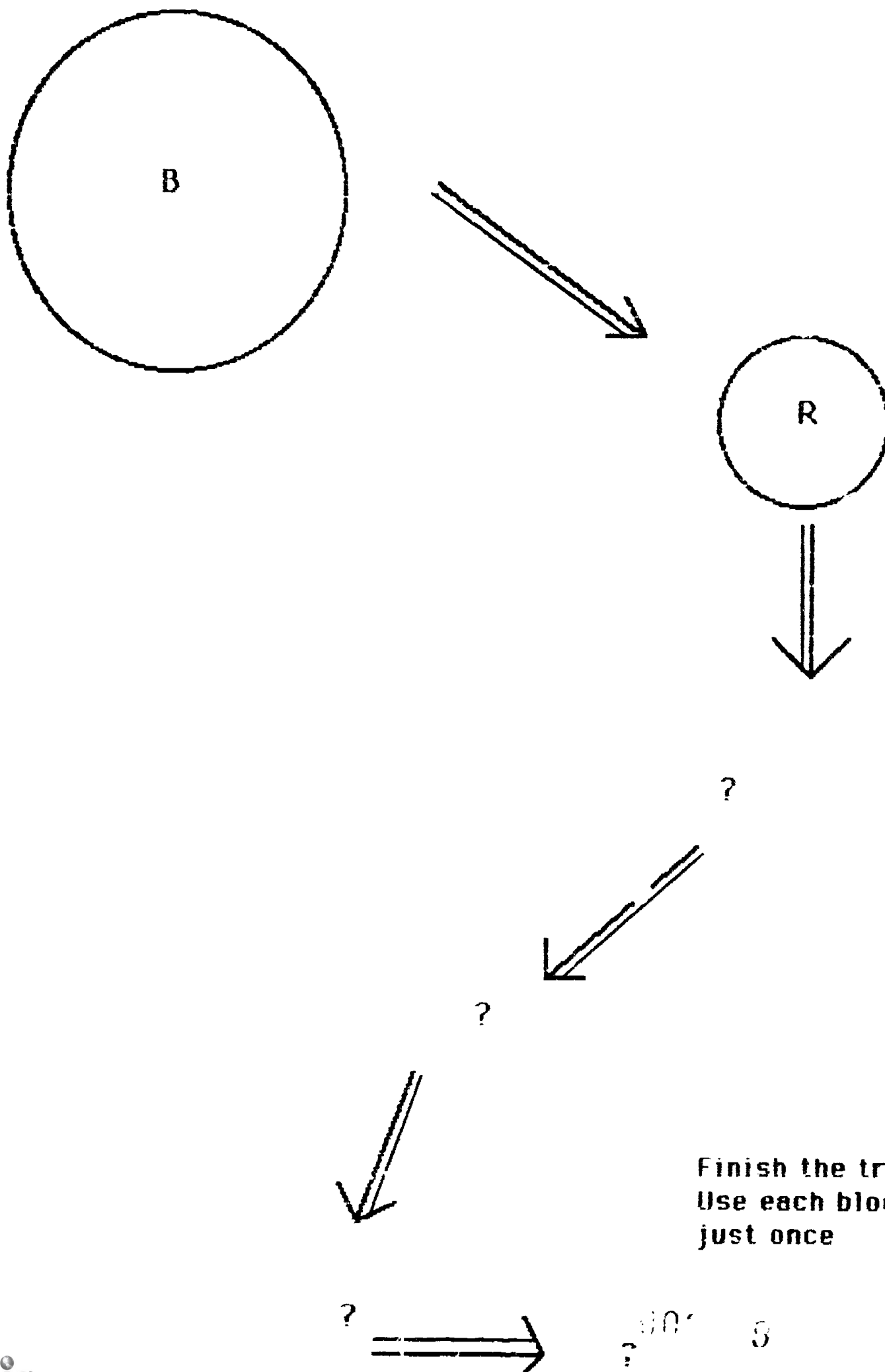
KEEP GOING. USE EACH
BLOCK JUST ONCE.

1 DIFFERENCE TRAIN



Keep Going. Use
each block just
once.

2 DIFFERENCE TRAIN

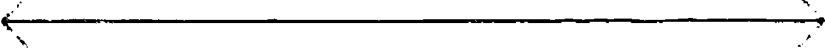


MATHEMATICIAN: _____

<i>INSIDE</i>	<i>OUTSIDE</i>
Red	
	Square
Triangle	
Yellow	
	Rectangle
	Blue
Circle	

MATHEMATICIAN: _____

Ordering Things

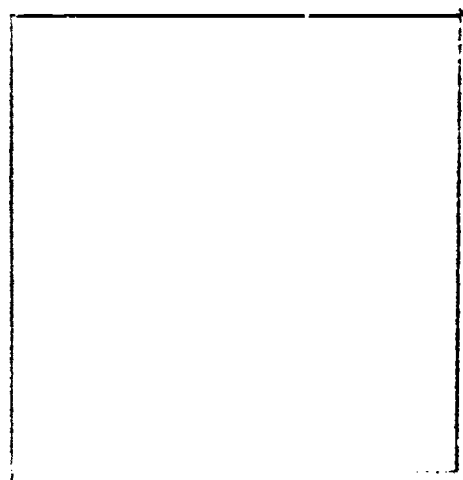
Heaviest  Lightest

ORDERED

Objects Used	HEAVIEST					LIGHTEST

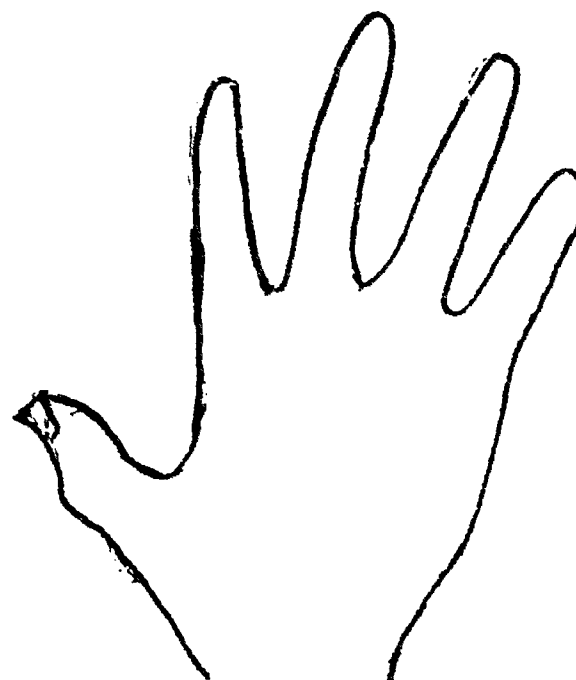
MATHEMATICIAN: _____

PUT TOGETHER GAME
WORKMAT

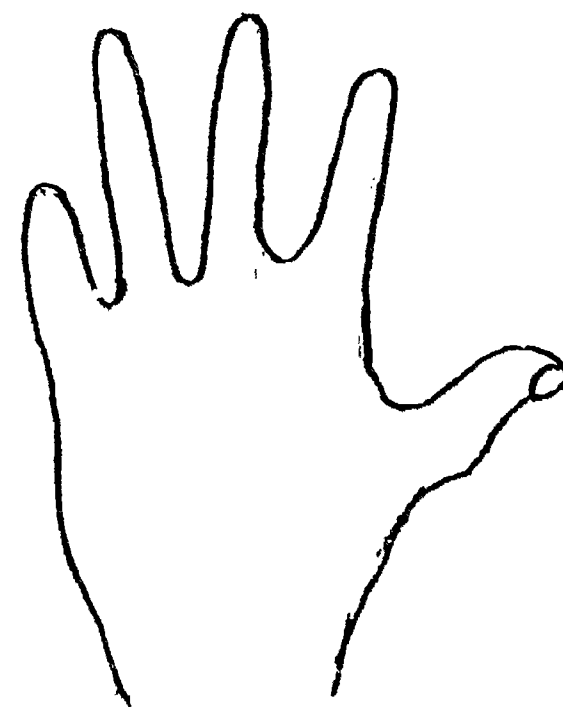


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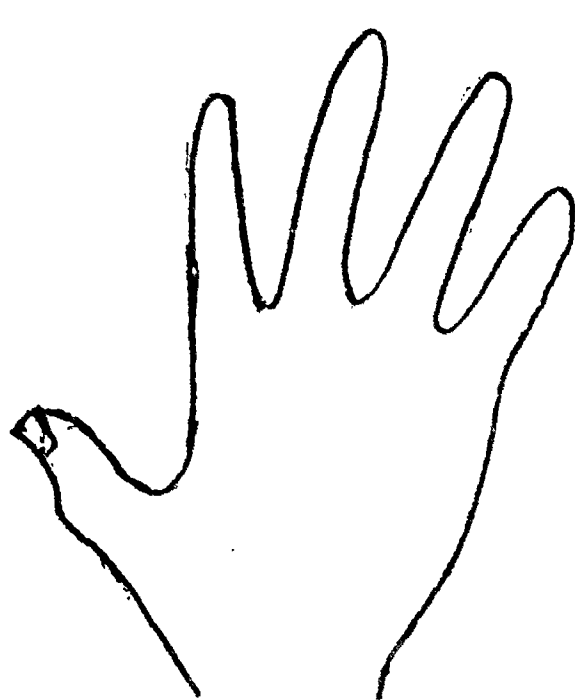
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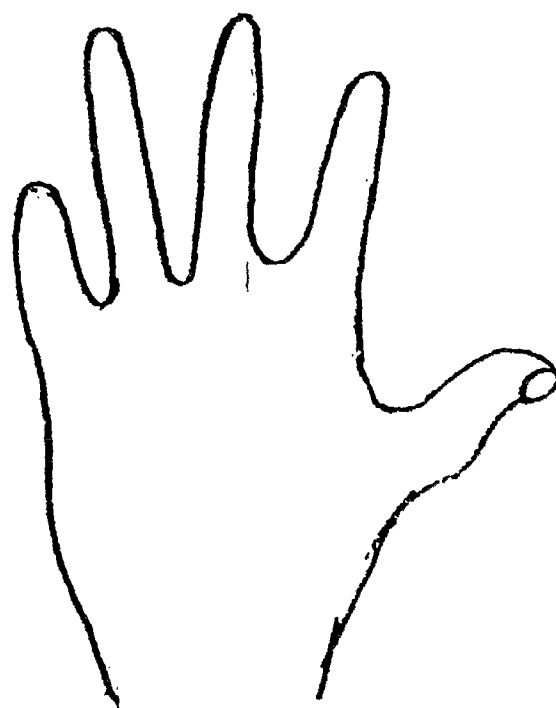
MATHEMATICIAN _____

PUT TOGETHER GAME
WORKMAT

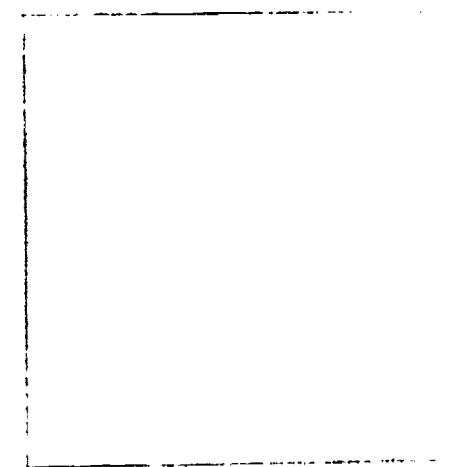


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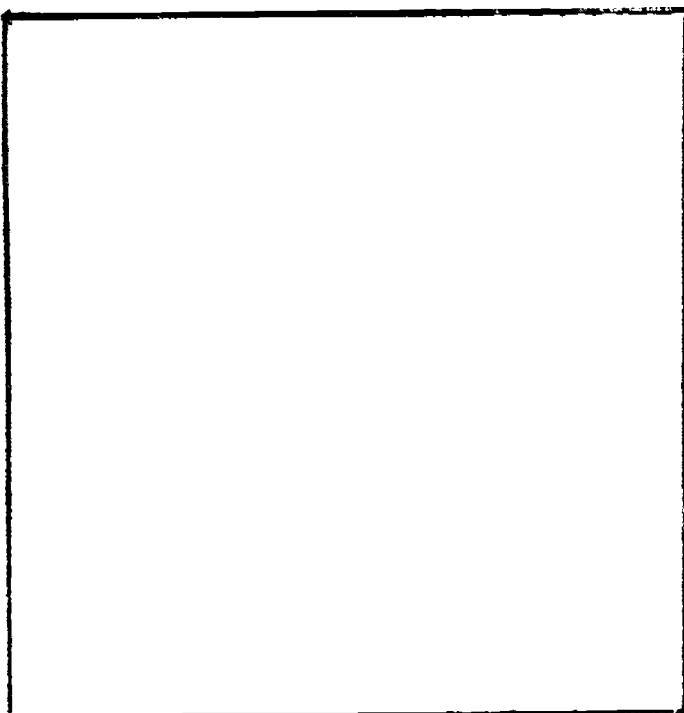
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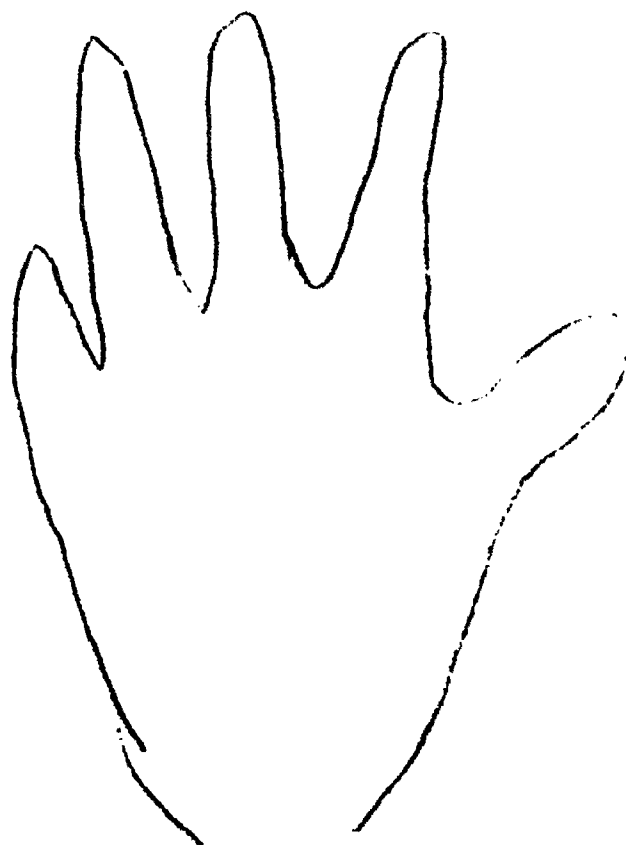
MATHEMATICIAN: _____

TAKE APART GAME
WORKMAT

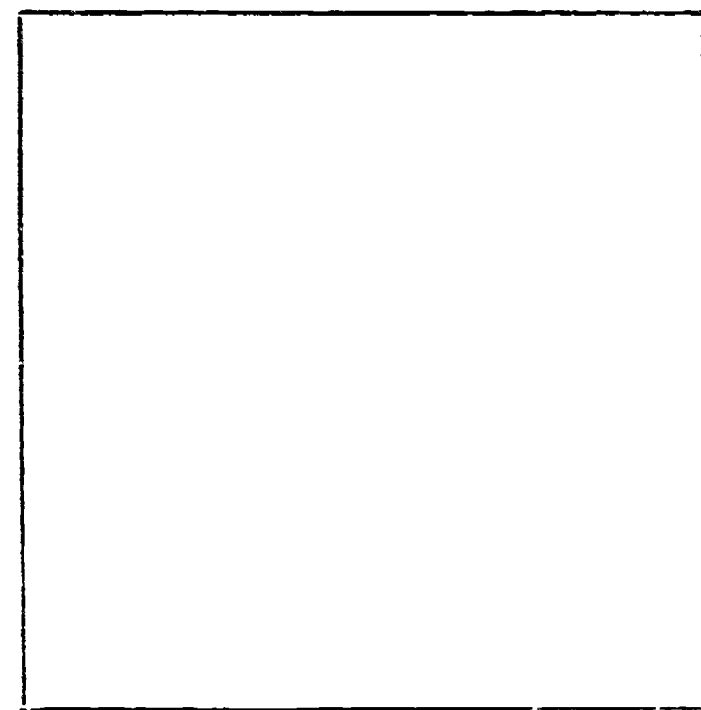


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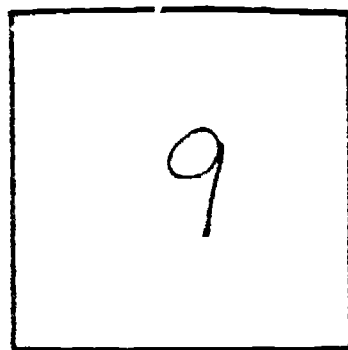
17

FINDING THE DIFFERENCE GAME
WORKMAT

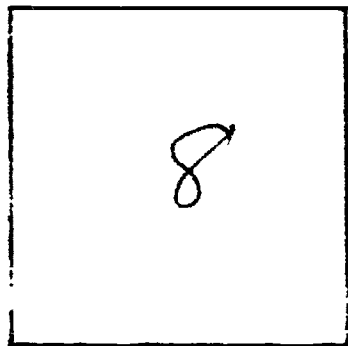
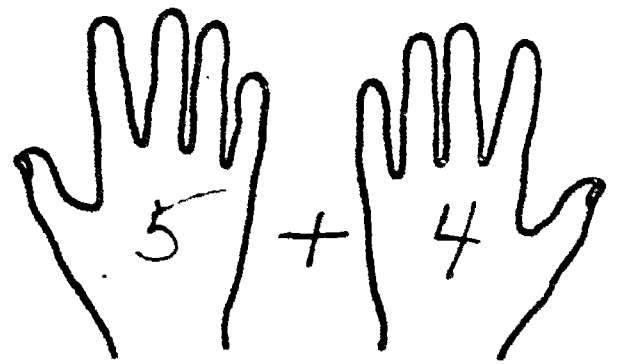
$$\begin{array}{ccc} \boxed{A} & - & \boxed{B} = \boxed{C} \\ 18 & & \text{DIFFERENCE} \\ & & 19 \end{array}$$

My Put Together Game Record

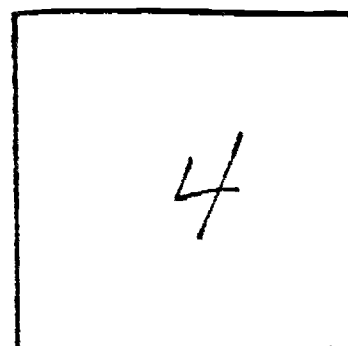
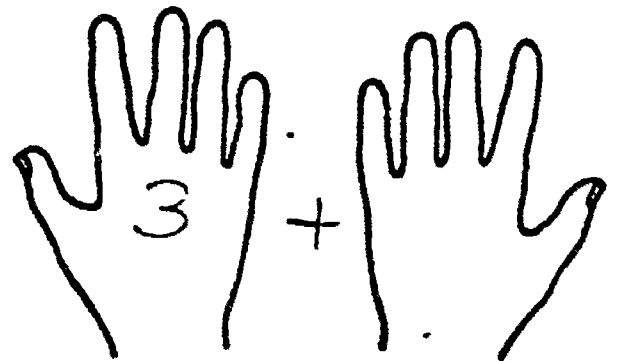
Example!



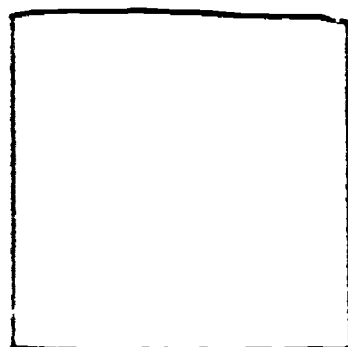
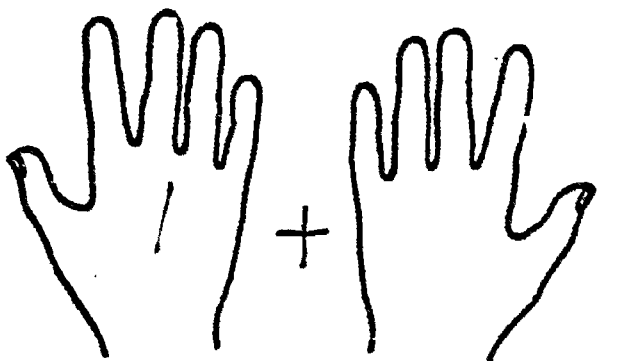
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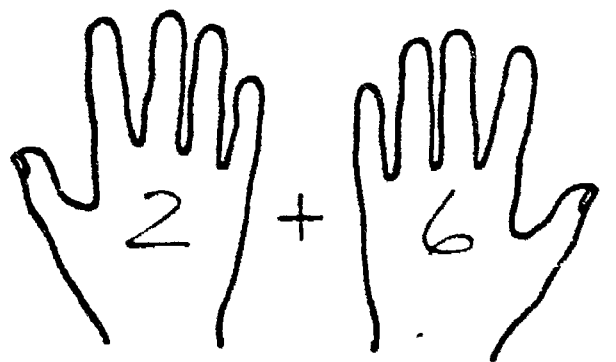
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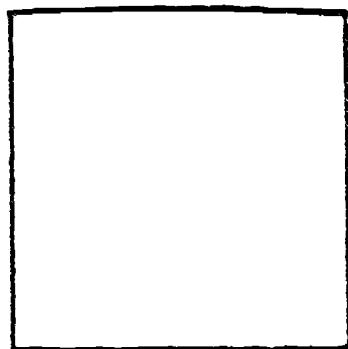


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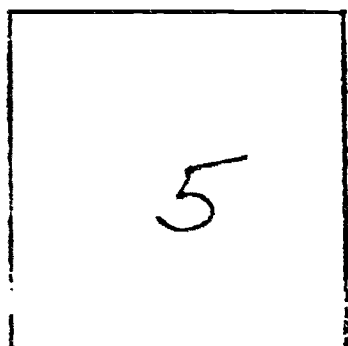
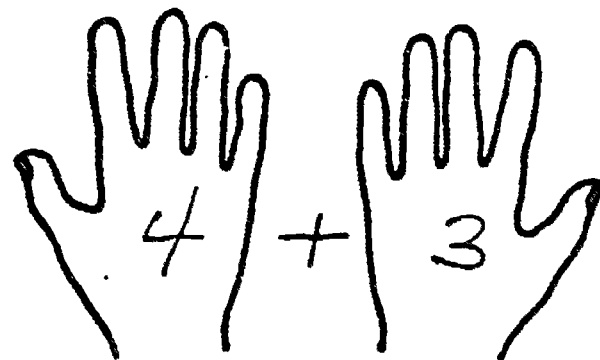


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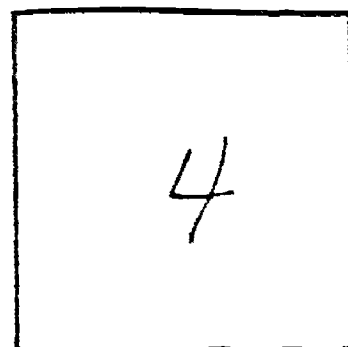
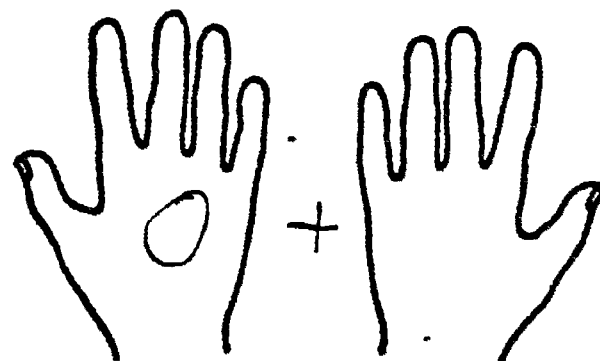
My Put Together Game Record



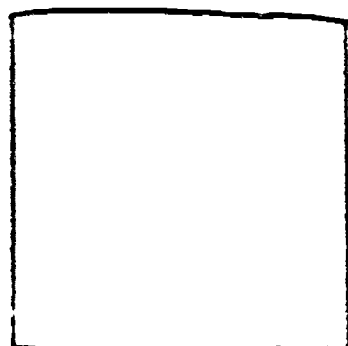
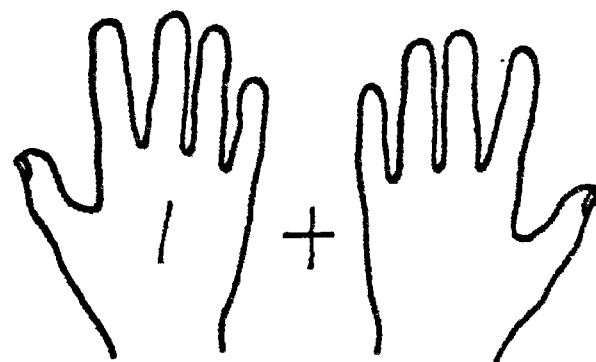
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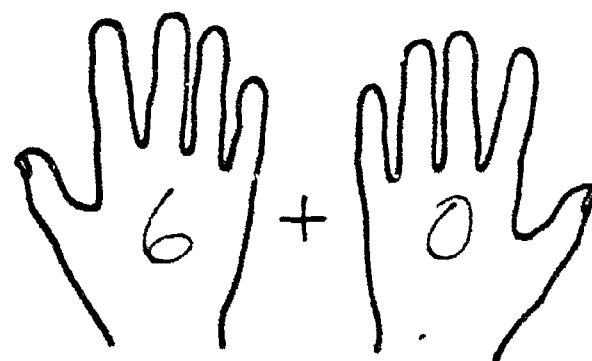
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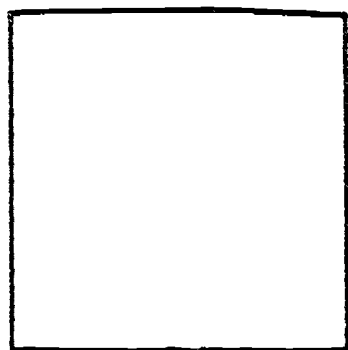


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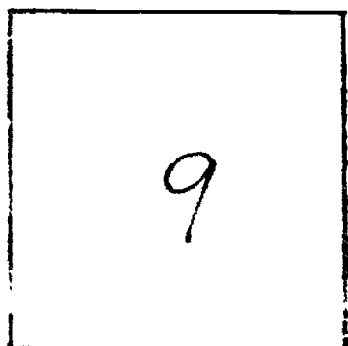
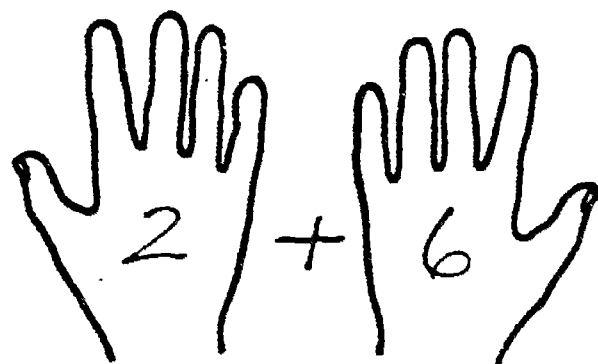


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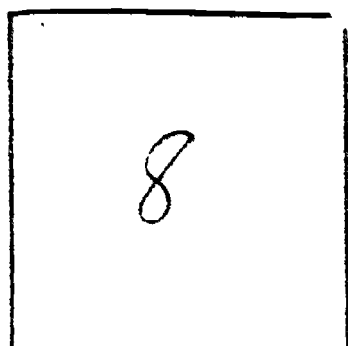
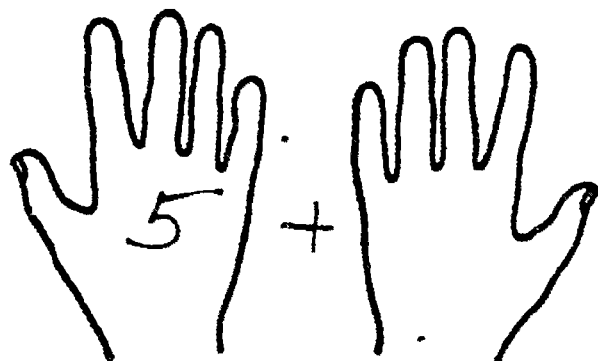
My Put Together Game Record



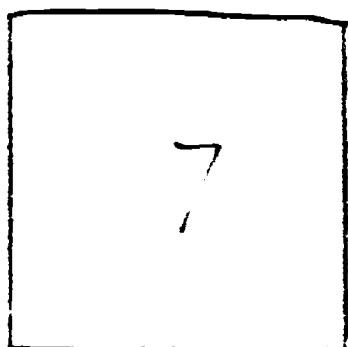
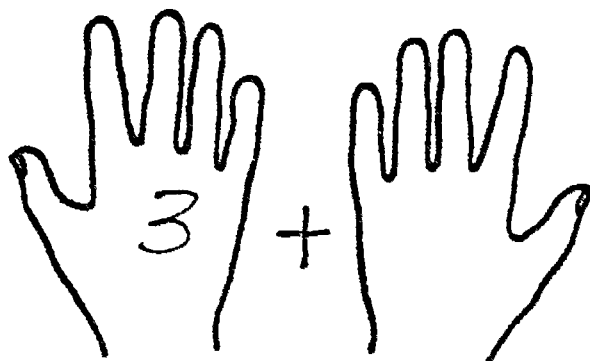
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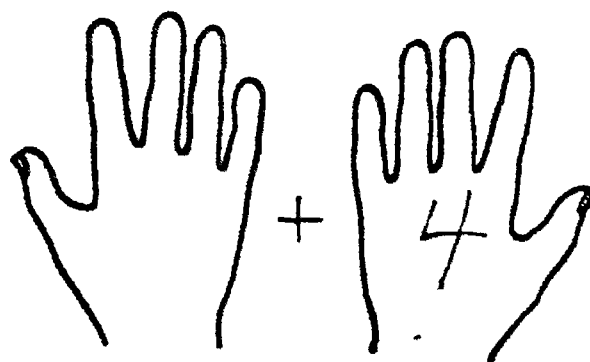
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THE PUT TOGETHER GAME

Example!

$$\begin{array}{|c|} \hline \text{Hand with 3 fingers} \\ \hline \end{array} + \begin{array}{|c|} \hline \text{Hand with 6 fingers} \\ \hline \end{array} = \boxed{9}$$

$$\begin{array}{|c|} \hline \text{Hand with 2 fingers} \\ \hline \end{array} + \begin{array}{|c|} \hline \text{Hand with 7 fingers} \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{|c|} \hline \text{Hand with 3 fingers} \\ \hline \end{array} + \begin{array}{|c|} \hline \text{Hand with 5 fingers} \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{|c|} \hline \text{Hand with 1 finger} \\ \hline \end{array} + \begin{array}{|c|} \hline \text{Hand with 7 fingers} \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{|c|} \hline \text{Hand with 6 fingers} \\ \hline \end{array} + \begin{array}{|c|} \hline \text{Hand with 2 fingers} \\ \hline \end{array} = \boxed{}$$

MATHEMATICIAN: _____

THE PUT TOGETHER GAME

$$\begin{array}{|c|} \hline \text{Hand with 4 fingers} + \text{Hand with 4 fingers} = \square \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline \text{Hand with 5 fingers} + \text{Hand with 6 fingers} = \square \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline \text{Hand with 7 fingers} + \text{Hand with 2 fingers} = \square \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline \text{Hand with 8 fingers} + \text{Hand with 0 fingers} = \square \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline \text{Hand with 5 fingers} + \text{Hand with 1 finger} = \square \\ \hline \end{array}$$

MATHEMATICIAN: _____

THE PUT TOGETHER GAME

$$\begin{array}{|c|} \hline 2 \\ \hline \end{array} + \begin{array}{|c|} \hline 6 \\ \hline \end{array} = \square$$

$$\begin{array}{|c|} \hline 0 \\ \hline \end{array} + \begin{array}{|c|} \hline 4 \\ \hline \end{array} = \square$$

$$\begin{array}{|c|} \hline 5 \\ \hline \end{array} + \begin{array}{|c|} \hline 3 \\ \hline \end{array} = \square$$

$$\begin{array}{|c|} \hline 2 \\ \hline \end{array} + \begin{array}{|c|} \hline 3 \\ \hline \end{array} = \square$$

$$\begin{array}{|c|} \hline 4 \\ \hline \end{array} + \begin{array}{|c|} \hline 0 \\ \hline \end{array} = \square$$

THE PUT TOGETHER GAME

$$\begin{array}{|c|} \hline \text{Hand with 6 fingers} + \text{Hand with 2 fingers} = \square \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline \text{Hand with 2 fingers} + \text{Hand with 5 fingers} = \square \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline \text{Hand with 9 fingers} + \text{Hand with 0 fingers} = \square \\ \hline \end{array}$$

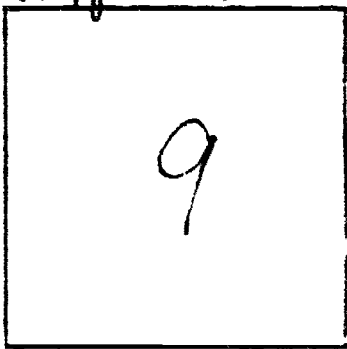
$$\begin{array}{|c|} \hline \text{Hand with 1 finger} + \text{Hand with 8 fingers} = \square \\ \hline \end{array}$$

$$\begin{array}{|c|} \hline \text{Hand with 7 fingers} + \text{Hand with 1 finger} = \square \\ \hline \end{array}$$

MATHEMATICIAN

My Take Apart Game Record

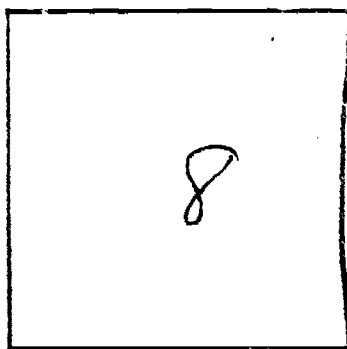
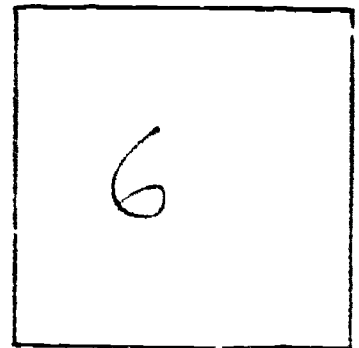
Example:



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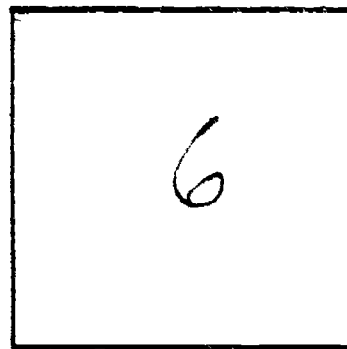
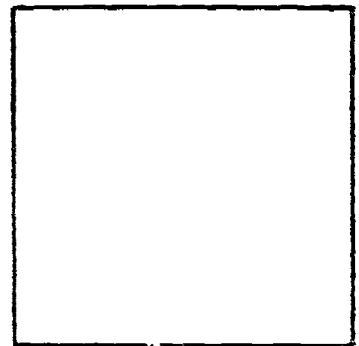
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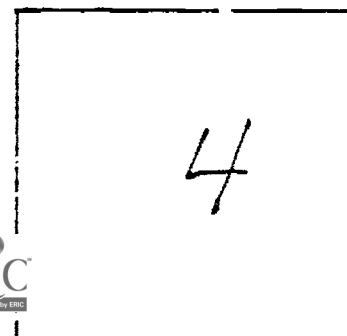
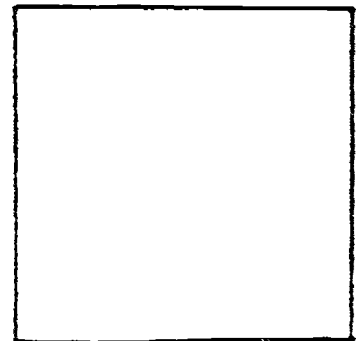
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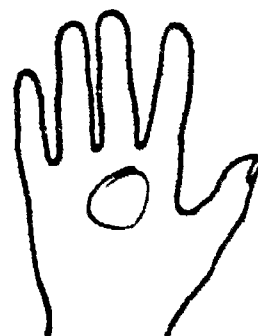
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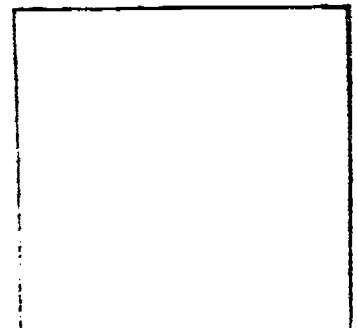
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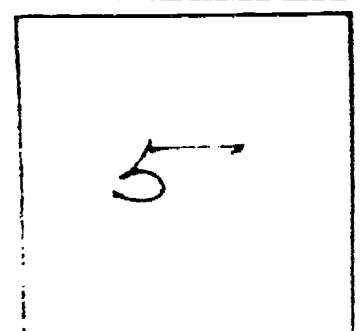
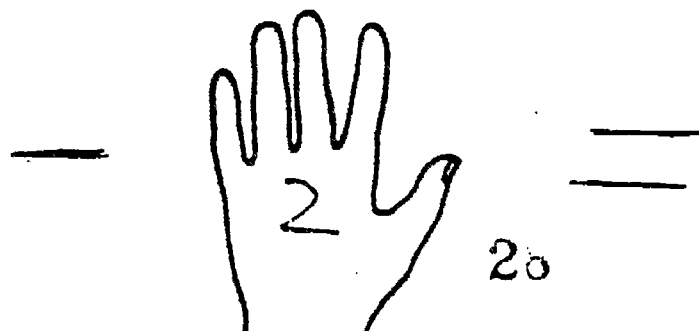
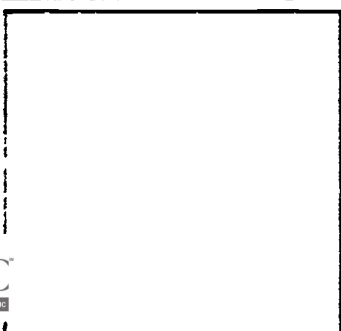
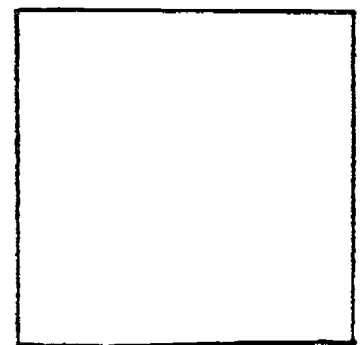
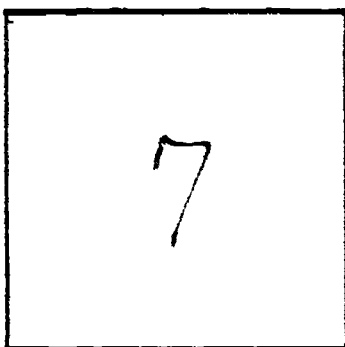
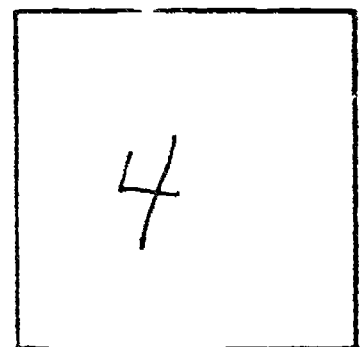
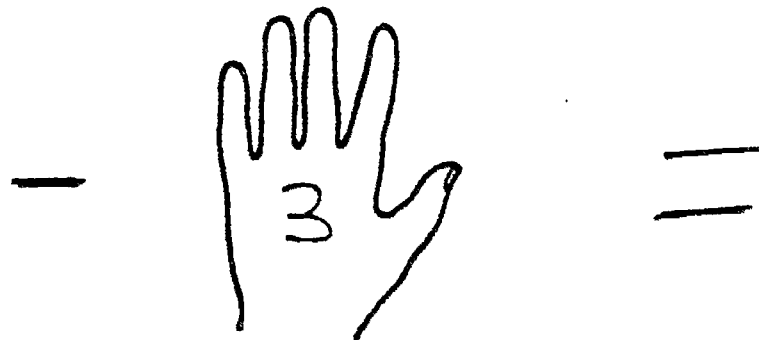
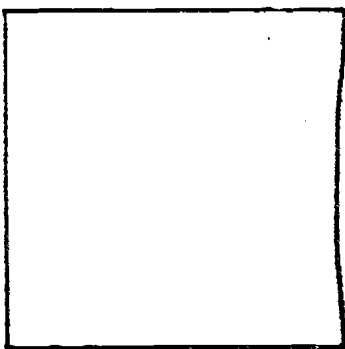
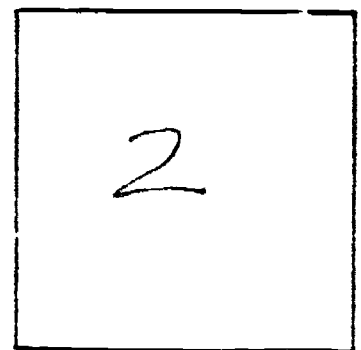
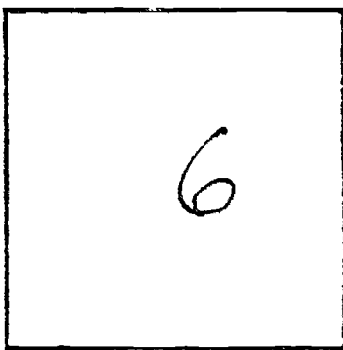


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MATHEMATICIAN

My Take Apart Game Record



MATHEMATICIAN

My Take Apart Game Record

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4

6

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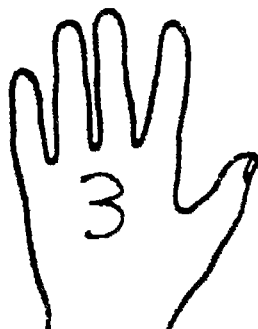
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MATHEMATICIAN

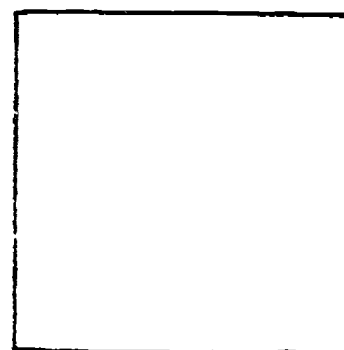
My Take Apart Game Record

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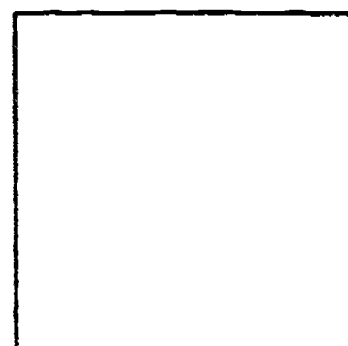


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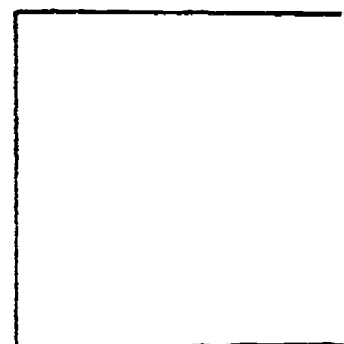


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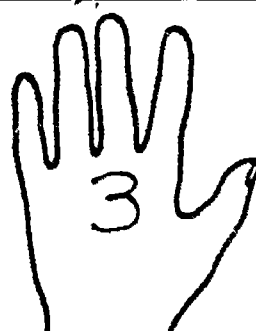


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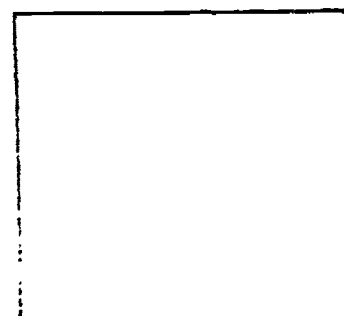


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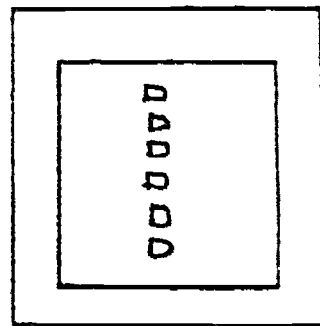
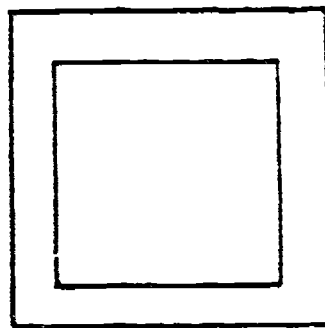
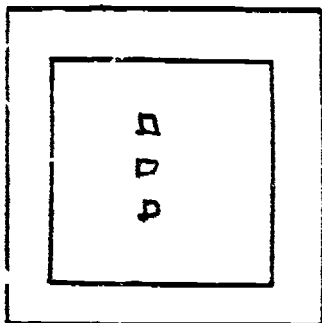
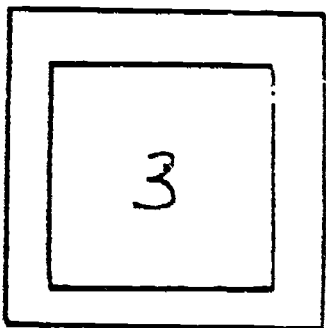
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MATHEMATICIAN: _____

Example:

My Combine Game Record

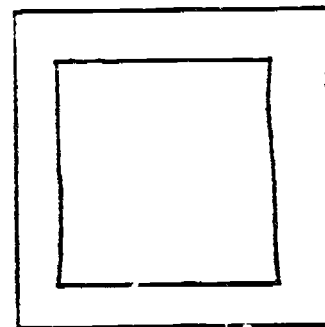
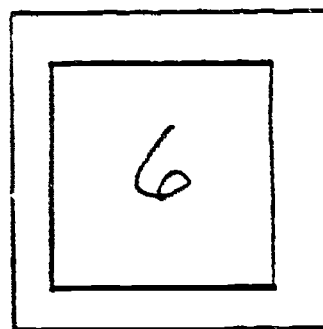
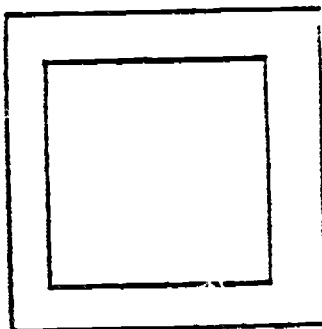
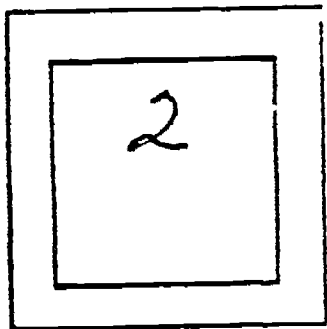


$$\begin{array}{r} + \quad 4 \\ \hline 7 \end{array}$$

$$\begin{array}{r} + \quad \begin{array}{c} \circ \\ \circ \\ \circ \\ \circ \end{array} \\ \hline \end{array}$$

$$+ \quad \underline{\hspace{2cm}}$$

$$+ \quad \underline{\hspace{2cm}}$$

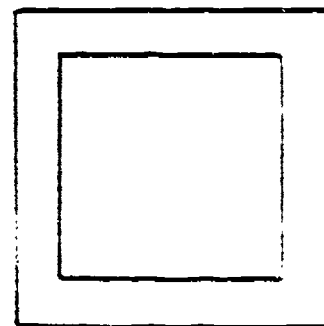
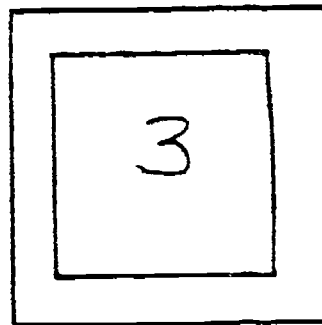
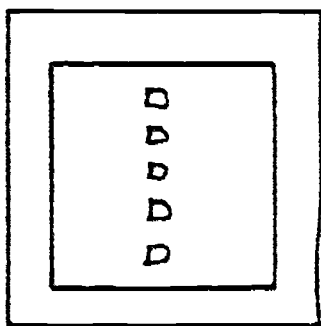
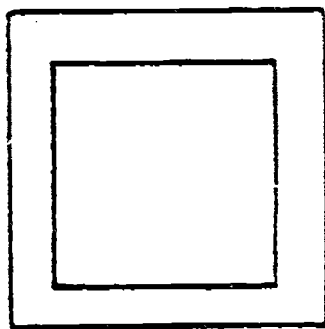


$$\begin{array}{r} + \quad \underline{\hspace{2cm}} \\ 6 \end{array}$$

$$+ \quad \underline{\hspace{2cm}}$$

$$+ \quad \begin{array}{c} 2 \\ \hline \end{array}$$

$$+ \quad \underline{\hspace{2cm}}$$



$$+ \quad \underline{\hspace{2cm}}$$

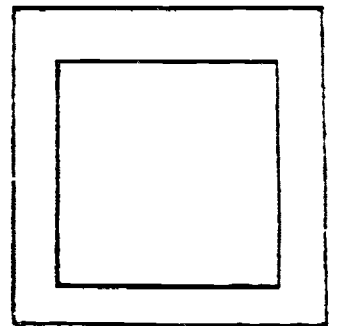
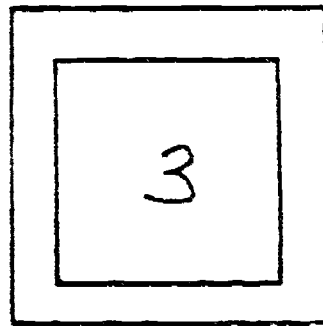
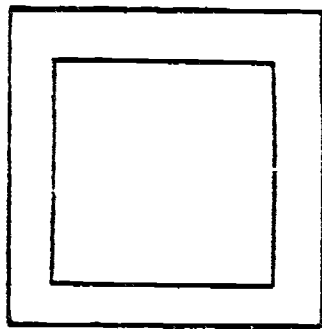
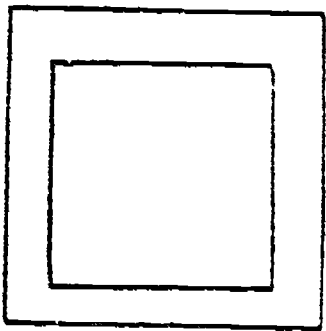
$$+ \quad \begin{array}{c} \circ \\ \circ \\ \circ \end{array}$$

$$+ \quad \underline{\hspace{2cm}}$$

$$+ \quad \underline{\hspace{2cm}}$$

MATHEMATICIAN: _____

My Combine Game Record

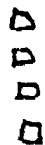
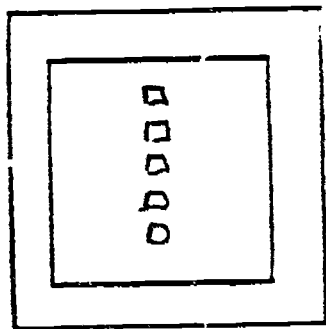
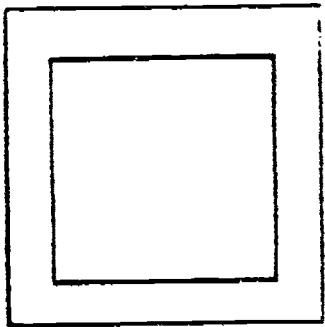


$$+ \frac{2}{5}$$

+ _____

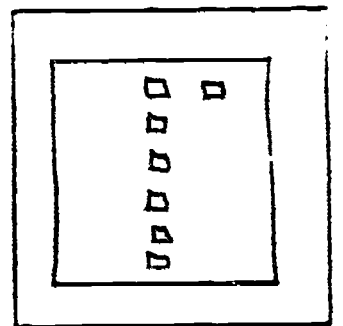
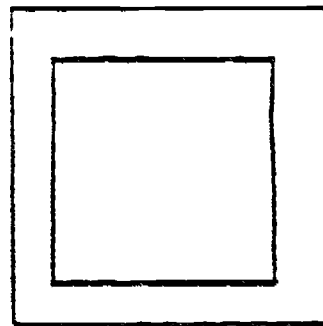
$$+ \frac{0}{}$$

+ _____



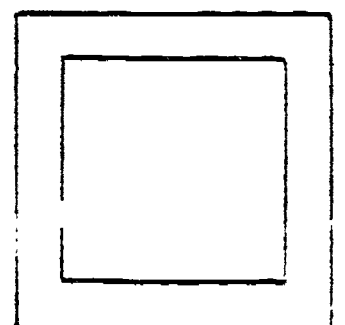
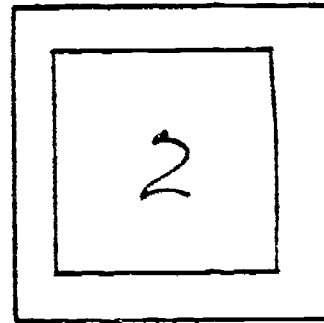
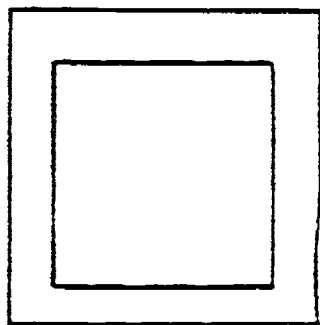
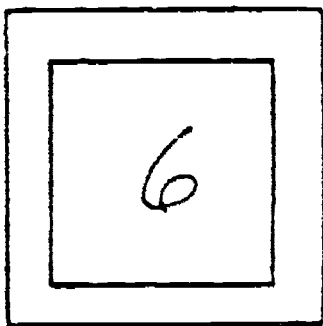
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+ $\frac{1}{}$

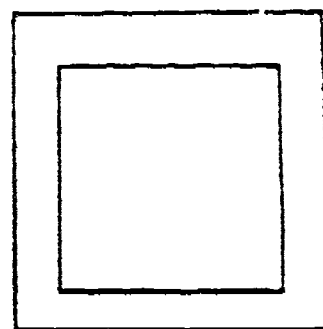
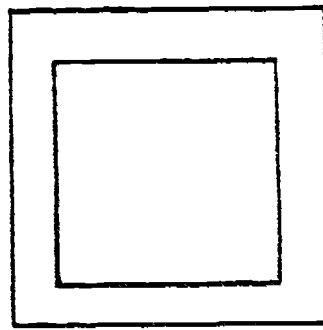
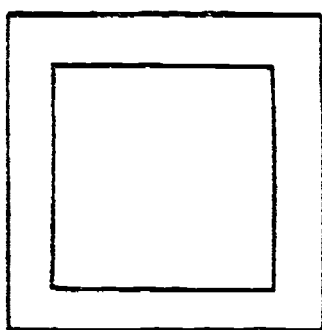
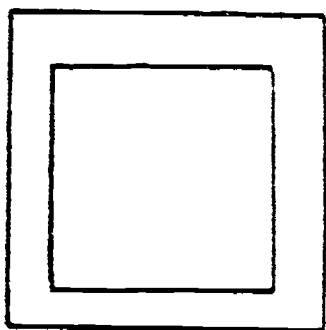
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MATHEMATICIAN: _____

My Combine Game Record

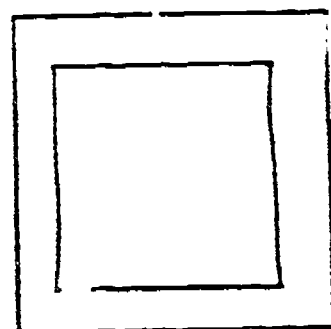
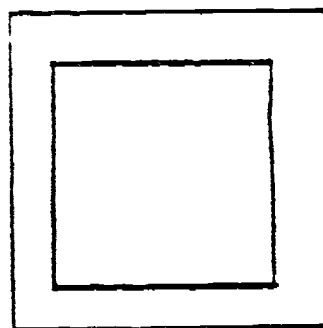
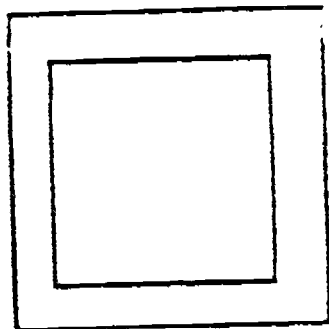
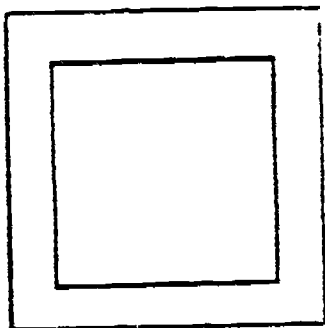


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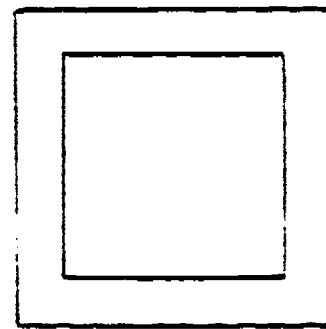
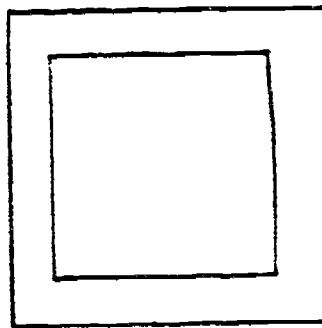
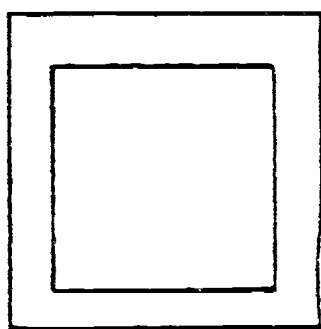
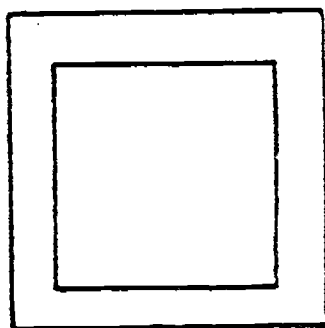


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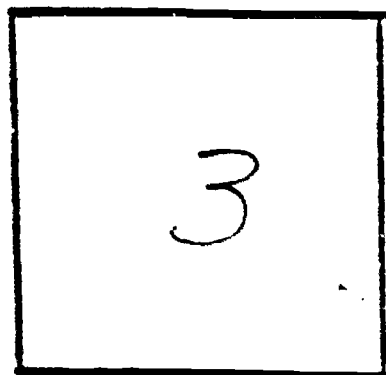
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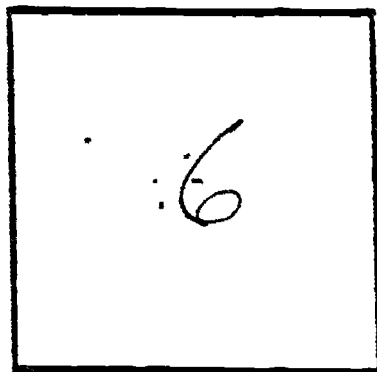
MATHEMATICIAN: _____

Finding the DIFFERENCE

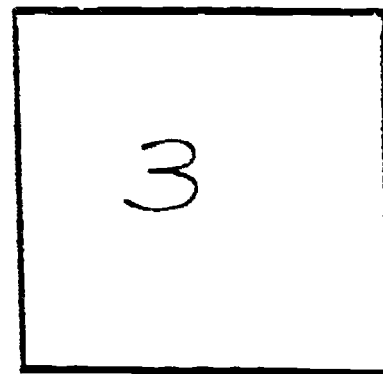
Example!



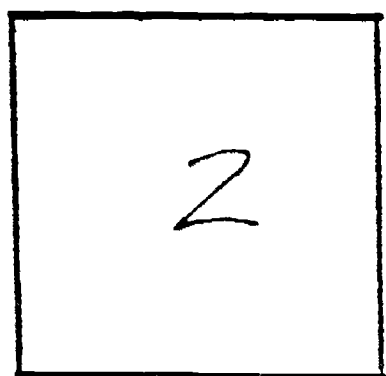
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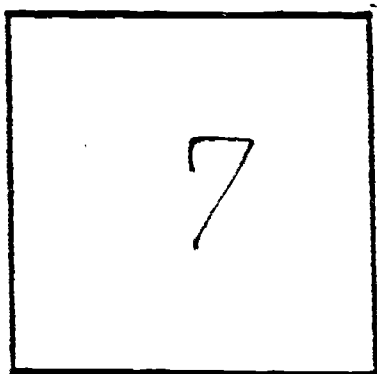
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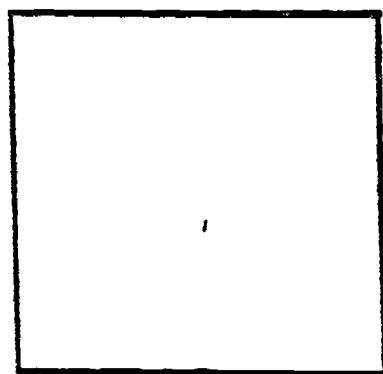
DIFFERENCE



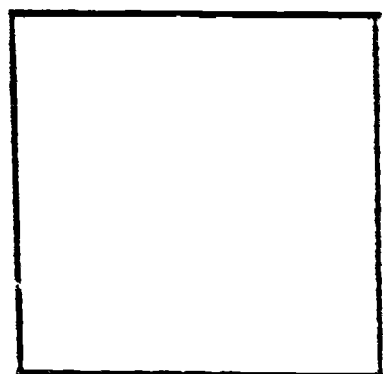
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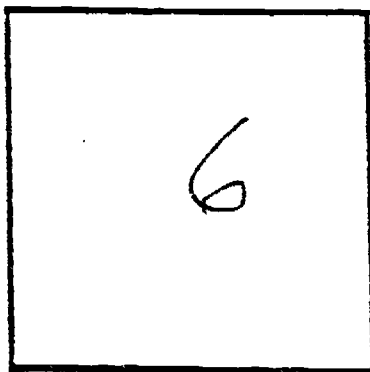
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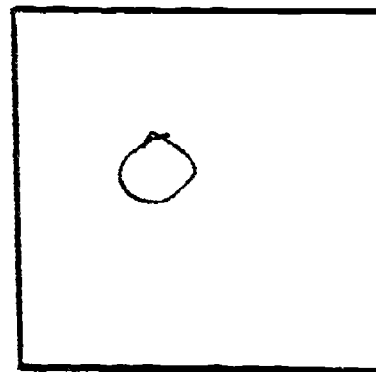
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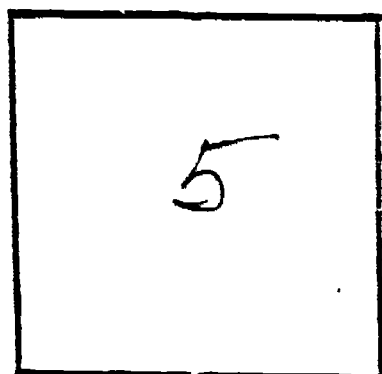
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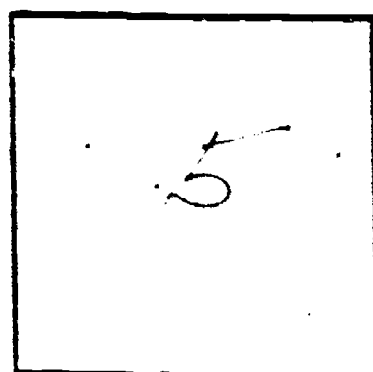
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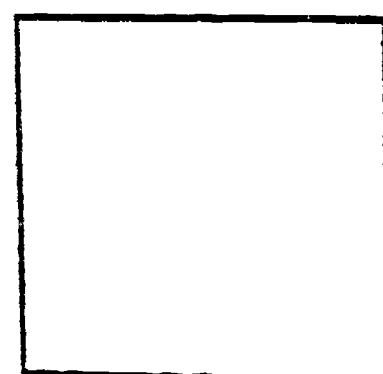
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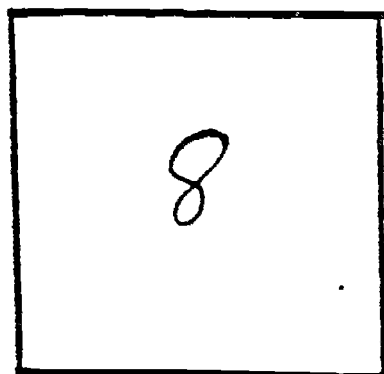


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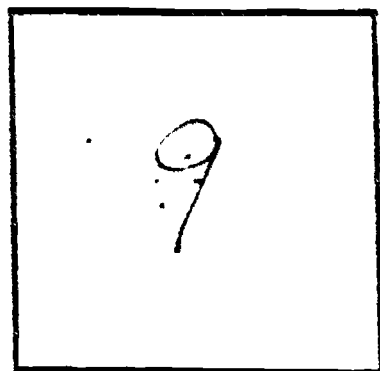


MATHEMATICIAN: _____

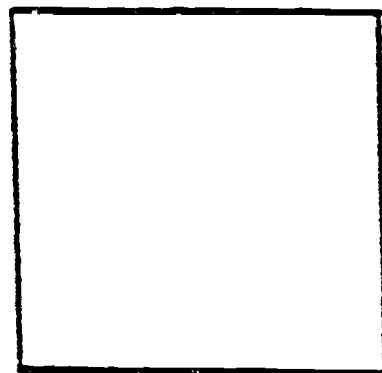
Finding the DIFFERENCE



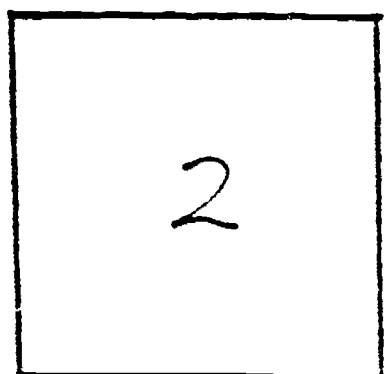
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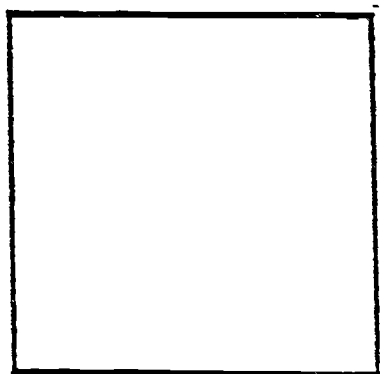
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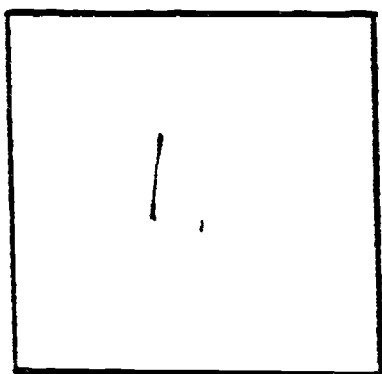
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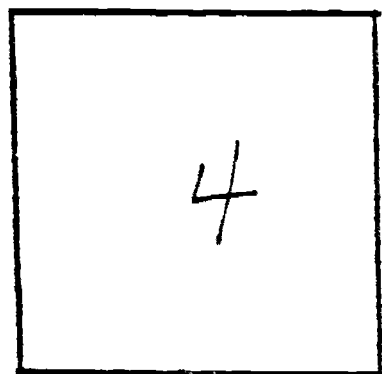
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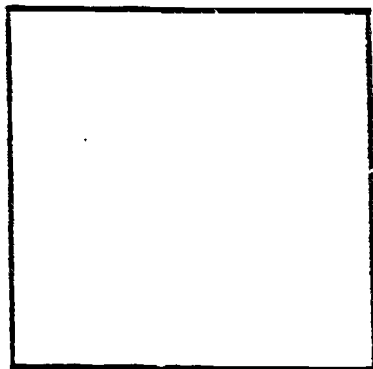
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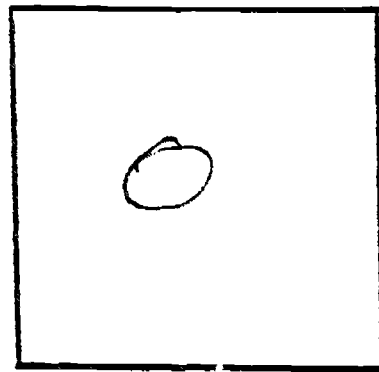
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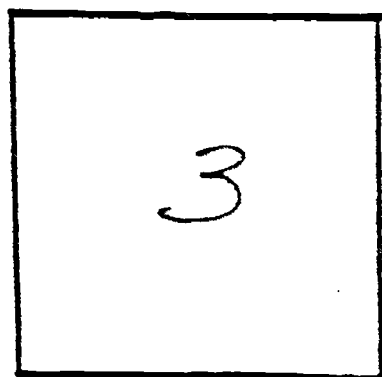
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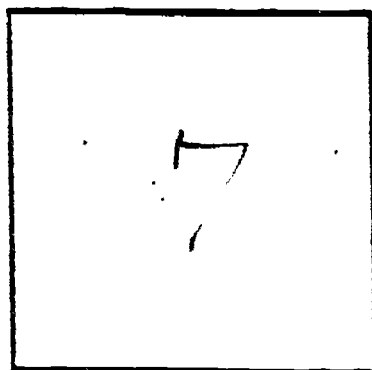
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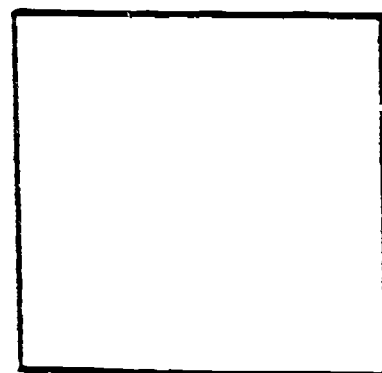
DIFFERENCE



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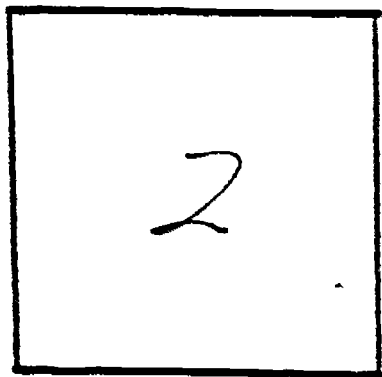


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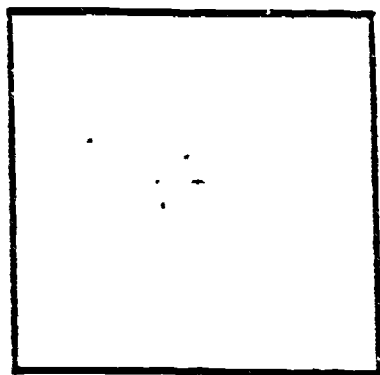


MATHEMATICIAN: _____

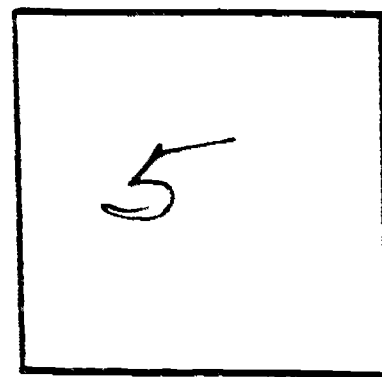
Finding the DIFFERENCE



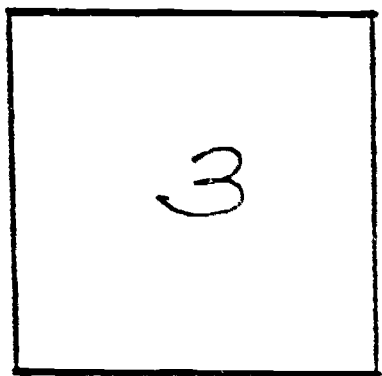
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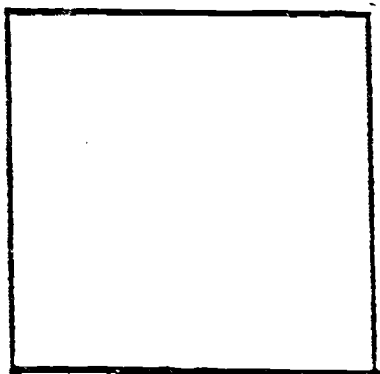
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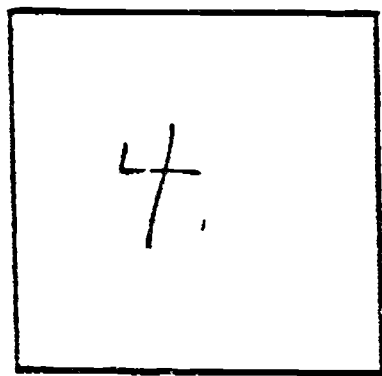
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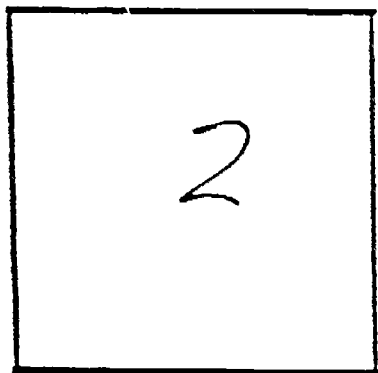
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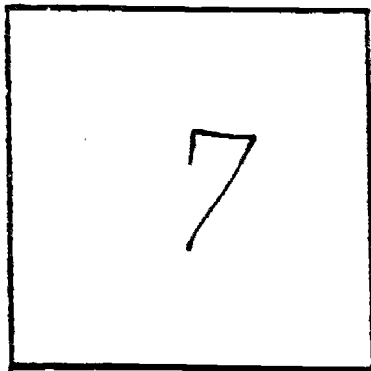
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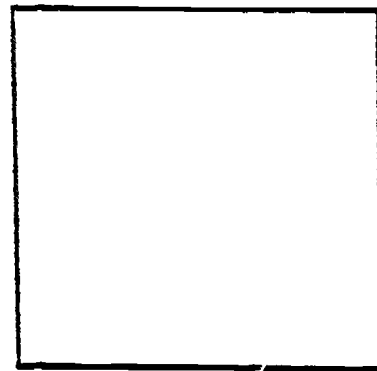
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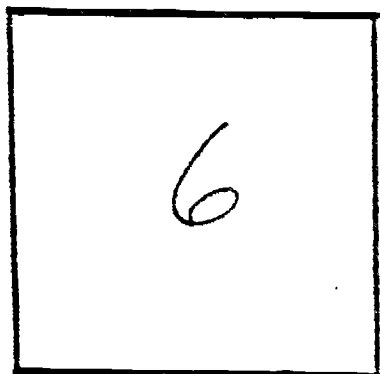
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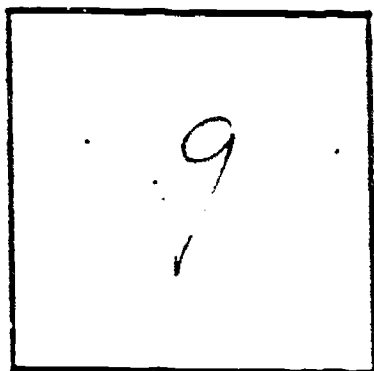
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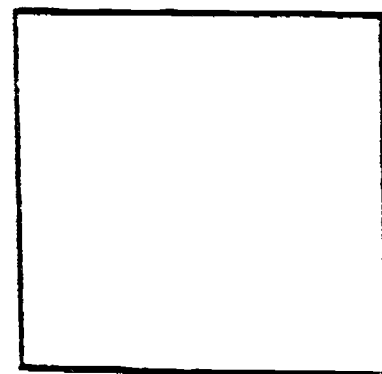
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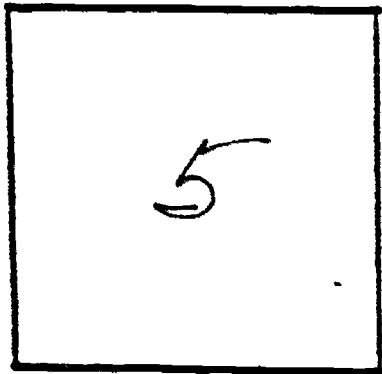


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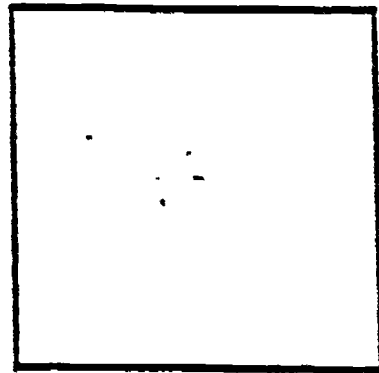


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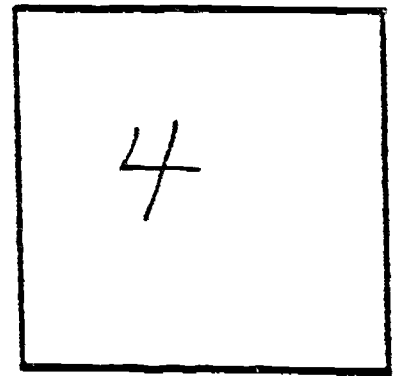
Finding the DIFFERENCE



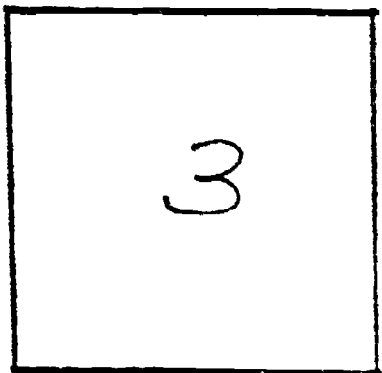
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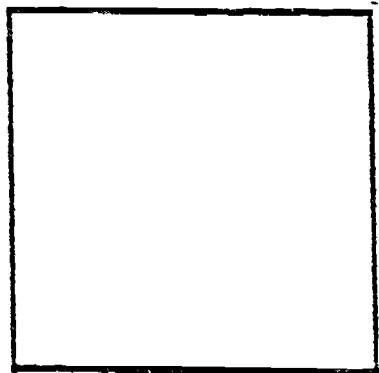
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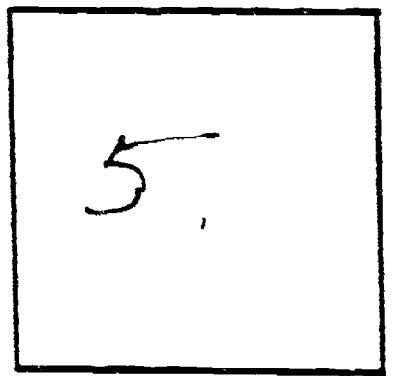
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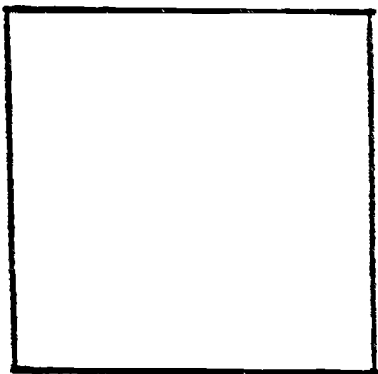
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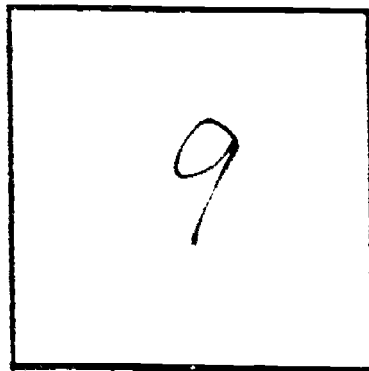
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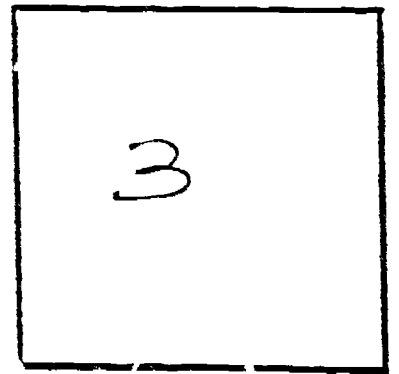
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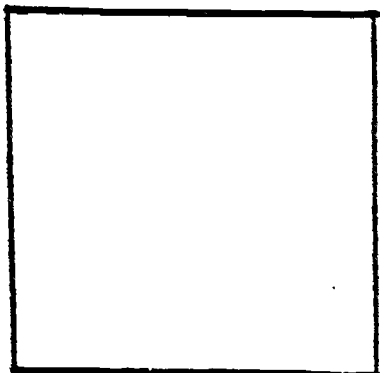
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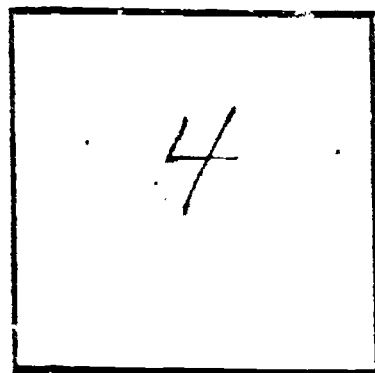
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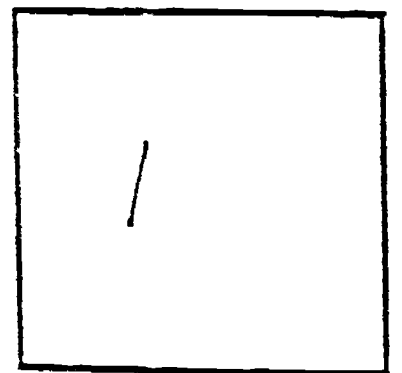
DIFFERENCE



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MATHEMATICIAN: _____

Arrange material on your workmat to show what each sentence means.
Then put a numeral in the box to complete the sentence.

$7 + 2 = \boxed{}$

$9 - 3 = \boxed{}$

$\boxed{} = 5 - 3$

$4 + \boxed{} = 9$

$\boxed{} = 8 + 1$

$8 - 2 = \boxed{}$

$3 + 5 = \boxed{}$

$7 = 3 + \boxed{}$

$2 + \boxed{} = 6$

$5 + 4 = \boxed{}$

$\boxed{} + 3 = 7$

$8 - 3 = \boxed{}$

$4 + 3 = \boxed{}$

$\boxed{} = 7 - 4$

$4 = 3 + \boxed{}$

$6 = 2 + \boxed{}$

Adding and Subtracting Practice

$$\begin{array}{r} 9 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

Adding and Subtracting Practice

$$\begin{array}{r} + 6 \\ 3 \\ \hline \end{array}$$

$$\begin{array}{r} + 5 \\ 8 \\ \hline \end{array}$$

$$\begin{array}{r} + 9 \\ 6 \\ \hline \end{array}$$

$$\begin{array}{r} + 5 \\ 6 \\ \hline \end{array}$$

$$\begin{array}{r} + 6 \\ 4 \\ \hline \end{array}$$

$$\begin{array}{r} + 7 \\ 6 \\ \hline \end{array}$$

$$\begin{array}{r} + 8 \\ 8 \\ \hline \end{array}$$

$$\begin{array}{r} + 5 \\ 7 \\ \hline \end{array}$$

$$\begin{array}{r} + 7 \\ 5 \\ \hline \end{array}$$

$$\begin{array}{r} + 4 \\ 8 \\ \hline \end{array}$$

$$\begin{array}{r} + 6 \\ 6 \\ \hline \end{array}$$

$$\begin{array}{r} + 6 \\ 8 \\ \hline \end{array}$$

$$\begin{array}{r} + 8 \\ 7 \\ \hline \end{array}$$

$$\begin{array}{r} + 3 \\ 9 \\ \hline \end{array}$$

$$\begin{array}{r} + 7 \\ 7 \\ \hline \end{array}$$

$$\begin{array}{r} + 7 \\ 9 \\ \hline \end{array}$$

$$\begin{array}{r} + 9 \\ 4 \\ \hline \end{array}$$

$$\begin{array}{r} + 5 \\ 7 \\ \hline \end{array}$$

$$\begin{array}{r} + 9 \\ 9 \\ \hline \end{array}$$

$$\begin{array}{r} + 4 \\ 7 \\ \hline \end{array}$$

$$\begin{array}{r} + 8 \\ 3 \\ \hline \end{array}$$

$$\begin{array}{r} + 9 \\ 5 \\ \hline \end{array}$$

$$\begin{array}{r} + 8 \\ 9 \\ \hline \end{array}$$

$$\begin{array}{r} + 5 \\ 8 \\ \hline \end{array}$$

$$\begin{array}{r} + 2 \\ 9 \\ \hline \end{array}$$

$$\begin{array}{r} + 8 \\ 6 \\ \hline \end{array}$$

$$\begin{array}{r} + 7 \\ 8 \\ \hline \end{array}$$

$$\begin{array}{r} + 6 \\ 9 \\ \hline \end{array}$$

$$\begin{array}{r} + 6 \\ 8 \\ \hline \end{array}$$

$$\begin{array}{r} + 7 \\ 9 \\ \hline \end{array}$$

$$\begin{array}{r} + 6 \\ 7 \\ \hline \end{array}$$

$$\begin{array}{r} + 9 \\ 9 \\ \hline \end{array}$$

Adding and Subtracting Practice

$$\begin{array}{r} 4 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 1 \\ \hline \end{array}$$

Adding and Subtracting Practice

$$\begin{array}{r} 9 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

MATHEMATICIAN: _____

Adding and Subtracting Practice

$$\begin{array}{r} 7 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 6 \\ \hline \end{array}$$

Mathematician: _____

NUMBER SENTENCE

COMPUTATION FORM

Example:

$$6 = 4 + 2$$

$$\begin{array}{r} 4 \\ 2 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 5 \\ 4 \\ \hline \square \end{array}$$

$$7 + 8 = \square$$

$$\begin{array}{r} \square \\ \square \\ \hline \square \end{array}$$

$$\begin{array}{r} 6 \\ 3 \\ \hline \square \end{array}$$

$$\square = 8 + 1$$

$$\begin{array}{r} \square \\ \square \\ \hline \square \end{array}$$

Mathematician: _____

NUMBER SENTENCE

COMPUTATION FORM

$$\square = 3 + 5$$

6

1

5

3

$$2 + 8 = \square$$

8

7

Mathematician: _____

NUMBER SENTENCE

COMPUTATION FORM

$$9 + 6 = \square$$

	8
+	9

$$\square = 3 + 8$$

$$6 + 5 = \square$$

	8
+	8
	16

Mathematician: _____

NUMBER SENTENCE

COMPUTATION FORM

$$7 + 7 = \square$$

$$\begin{array}{r} \square 9 \\ - \square 6 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ \square \\ \hline \square \end{array}$$

$$\begin{array}{r} \square 2 \\ + \square 10 \\ \hline \square \end{array}$$

$$\square = 3 + 11$$

$$\begin{array}{r} \square \\ \square \\ \hline \square \end{array}$$

$$7 + 4 = \square$$

$$\begin{array}{r} \square \\ \square \\ \hline \square \end{array}$$

Mathematician: _____

NUMBER SENTENCE

COMPUTATION FORM

$$8 + 2 = \square$$

$$\begin{array}{r} 9 \\ + 5 \\ \hline \square \end{array}$$

$$\square = 8 - 6$$

$$\begin{array}{r} 8 \\ - 6 \\ \hline \square \end{array}$$

$$\begin{array}{r} 9 \\ - 3 \\ \hline \square \end{array}$$

$$11 - 4 = \square$$

Mathematician: _____

NUMBER SENTENCE

COMPUTATION FORM

EXAMPLE:

$$3 + 6 = \boxed{9}$$

$$\begin{array}{r} \boxed{3} \\ + \boxed{6} \\ \hline \boxed{9} \end{array}$$

$$\boxed{} = 8 - 3$$

$$\begin{array}{r} \boxed{} \\ \boxed{} \\ \hline \boxed{} \end{array}$$

$$\begin{array}{r} \boxed{7} \\ - \boxed{2} \\ \hline \boxed{} \end{array}$$

$$7 - 4 = \boxed{}$$

$$\begin{array}{r} \boxed{} \\ \boxed{} \\ \hline \boxed{} \end{array}$$

$$\begin{array}{r} \boxed{9} \\ - \boxed{1} \\ \hline \boxed{} \end{array}$$

Mathematician: _____

NUMBER SENTENCE

COMPUTATION FORM

Example:

$$\boxed{5} + \boxed{4} = \boxed{9}$$

$$\begin{array}{r} 5 \\ + 4 \\ \hline 9 \end{array}$$

$$\boxed{} + \boxed{} = \boxed{}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

$$\boxed{} - \boxed{} = \boxed{}$$

$$\begin{array}{r} 8 \\ - 6 \\ \hline \end{array}$$

$$\boxed{} = \boxed{9} - \boxed{2}$$

Mathematician: _____

NUMBER SENTENCE

COMPUTATION FORM

$$\square = \square 8 + \square 5$$

$$\square \quad \square \quad \square$$

$$\square 9 + \square 6 = \square$$

$$\square 15 = \square 8 + \square$$

$$\begin{array}{r} 7 \\ + 8 \\ \hline \end{array}$$

Mathematician: _____

NUMBER SENTENCE

COMPUTATION FORM

$$\boxed{9} = \boxed{4} + \boxed{}$$

$$\boxed{} \quad \boxed{} \quad \boxed{}$$

$$\boxed{} \quad \boxed{} \quad \boxed{}$$

$$\boxed{} = \boxed{9} + \boxed{3}$$

$$\begin{array}{r} 9 \\ - \boxed{} \\ \hline 4 \end{array}$$

$$\begin{array}{r} 6 \\ + \boxed{} \\ \hline 12 \end{array}$$

Mathematician: _____

NUMBER SENTENCE

COMPUTATION FORM

$$\boxed{6} = \boxed{9} - \boxed{}$$

$$\boxed{7} + \boxed{} = \boxed{11}$$

$$\boxed{} \quad \boxed{} \quad \boxed{}$$

$$\begin{array}{r} 4 \\ + \boxed{} \\ \hline 9 \end{array}$$

$$\boxed{} \quad \boxed{} \quad \boxed{}$$

$$\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$$

Mathematician: _____

NUMBER SENTENCE

COMPUTATION FORM

$$\boxed{10} = \boxed{5} + \boxed{5}$$

--	--	--

$$\begin{array}{r} 12 \\ - \boxed{} \\ \hline 7 \end{array}$$

--	--	--

$$\begin{array}{r} 10 \\ - \boxed{} \\ \hline 8 \end{array}$$

$$\boxed{9} = \boxed{12} - \boxed{}$$

MATHEMATICIAN: _____

MY EQUALITY NUMBER SENTENCES

LEFT SIDE

RIGHT SIDE

Example:

$$3 + 3 + 6$$

=

$$4 + 4 + 4$$

=

=

=

=

MATHEMATICIAN: _____

MY EQUALITY NUMBER SENTENCES

LEFT SIDE

RIGHT SIDE

$$2 + 4 + \square = 3 + 6 + 1$$

$$5 + 3 + 2 + 1 = 4 + 2 + \square$$

$$7 + 1 + 1 + \square = 6 + 6$$

$$5 + 2 + \square = 6 + 3 + 2$$

$$7 + 5 + 3 = 8 + 1 + \square$$

MATHEMATICIAN: _____

MY EQUALITY NUMBER SENTENCES

LEFT SIDE

RIGHT SIDE

$$8 + 1 + 1 + 1$$

$$=$$

$$2 + \square$$

$$5 + 3 + 2$$

$$=$$

$$2 + 3 + \square$$

$$1 + 1 + 4 + 2$$

$$=$$

$$5 + 2 + \square$$

$$6 + 2 + 2$$

$$=$$

$$\square + 5$$

$$\square + 2 + 1 + 5$$

$$=$$

$$6 + 4 + 2$$

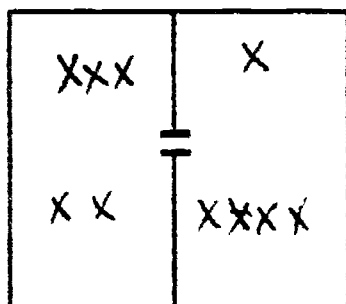
MATHEMATICIAN: _____

EQUALITY RECORD 1A

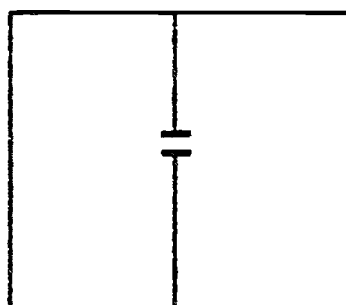
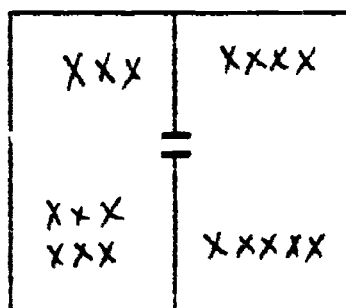
Equality Board

Number Sentences

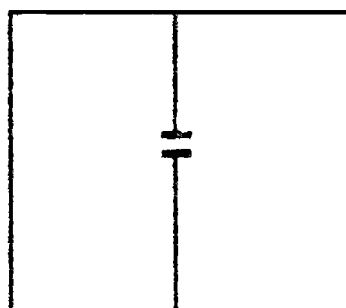
Example:



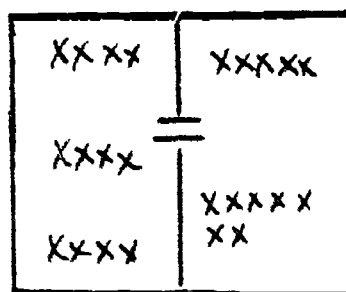
$$\begin{aligned} 5+3 &= 4+1 \\ 3+5 &= 1+4 \\ 5+3 &= 1+4 \\ 3+5 &= 4+1 \end{aligned}$$



$$7+2 = 4+3$$



$$4+8 = 6+6$$

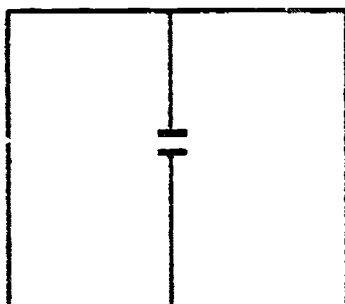


MATHEMATICIAN: _____

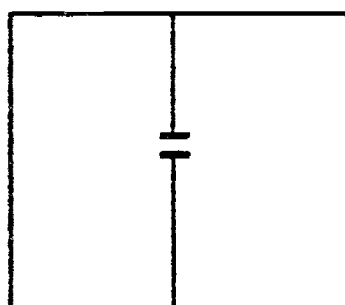
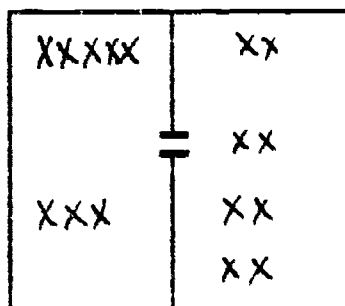
EQUALITY RECORD 1A

Equality Board

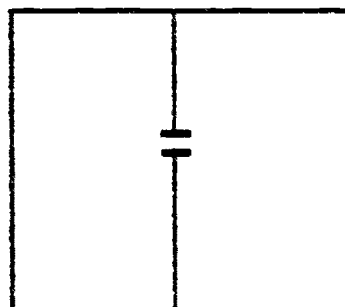
Number Sentences



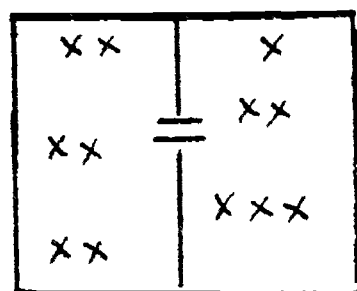
$$3 + 2 = 4 + 1$$



$$5 + 6 = 2 + 3 + 4 + 2$$



$$1 + 2 + 3 + 4 = 8 + 2$$

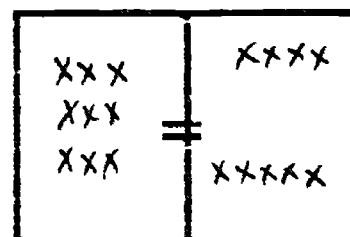


MATHEMATICIAN: _____

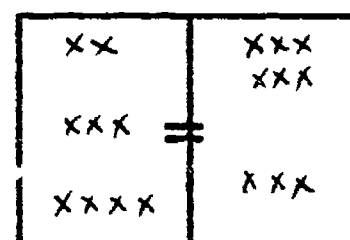
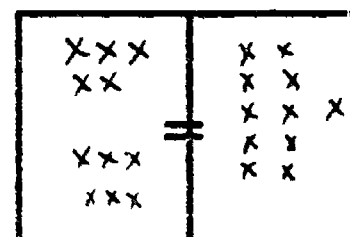
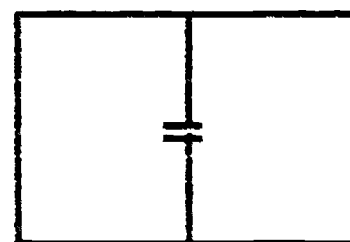
MY EQUALITY BOARD RECORDS

NUMBER SENTENCES

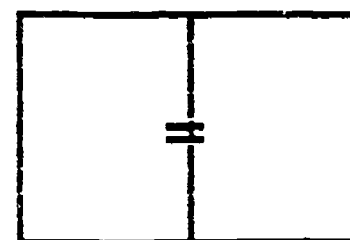
EQUALITY BOARD



$$8 + 4 = 5 + 7$$



$$1 + 2 + 3 = 4 + 2$$



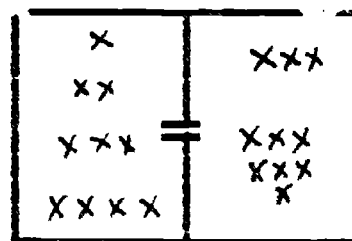
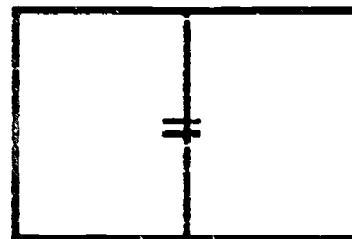
MATHEMATICIAN: _____

MY EQUALITY BOARD RECORDS

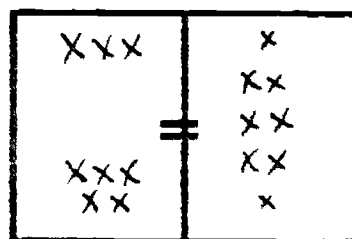
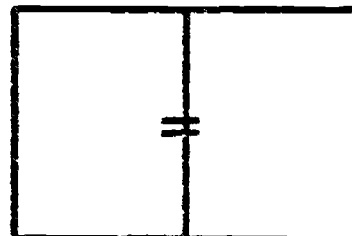
NUMBER SENTENCES

EQUALITY BOARD

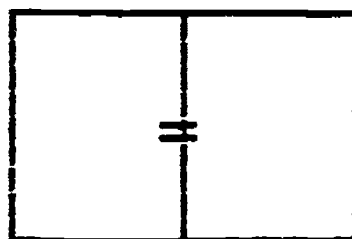
$$5 + 4 + 3 = 6 + 6$$



$$4 + 3 = 2 + 2 + 2 + 1$$



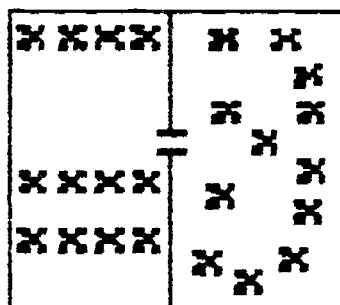
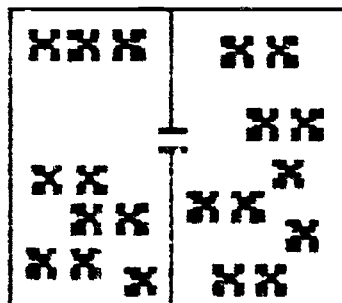
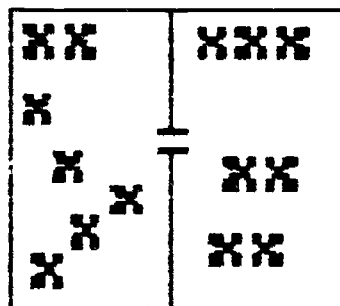
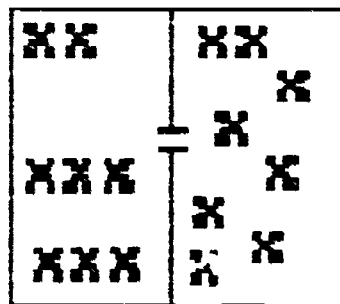
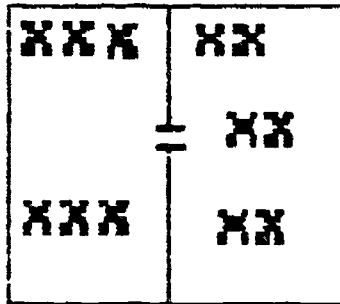
$$3 + 3 + 3 + 1 = 5 + 5$$



EQUALITY RECORD 1

Equality Board

Number Sentences



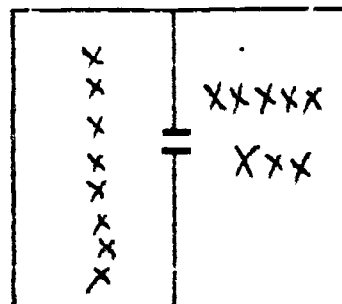
EQUALITY RECORD 2

Number Sentence

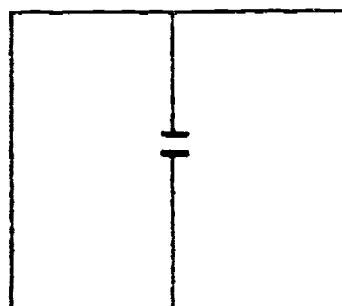
Equality Board

Example:

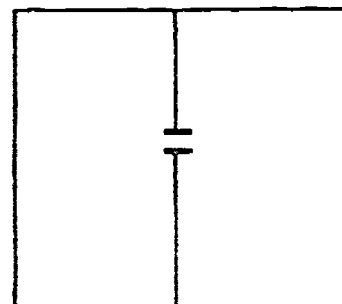
$$8 = 5 + 3$$



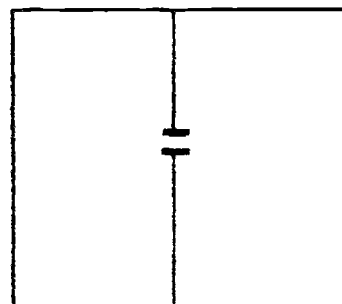
$$9 + 4 = 3$$



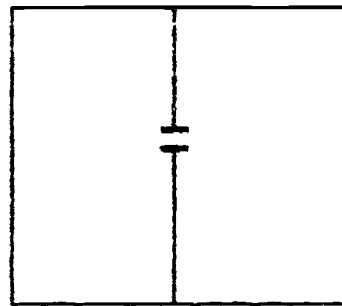
$$22 = 15 + 4 + 3$$



$$1 + 2 \ 3 = 6$$



$$27 = 8 + 9 + 10$$



The Same Number - Many Ways

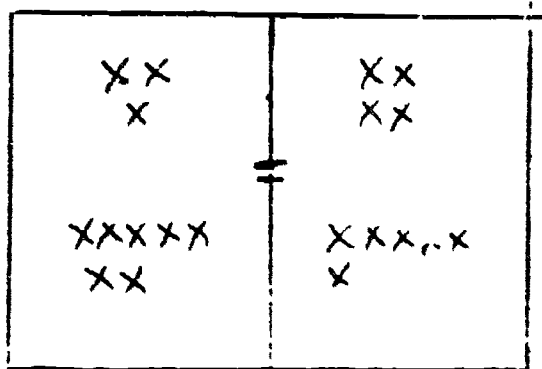
NUMBER

PICTURE

NUMBER SENTENCES

Example!

Ten



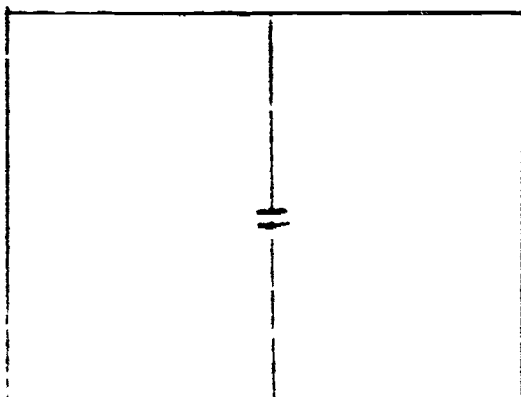
$$3 + 7 = 4 + 6$$

$$7 + 3 = 4 + 6$$

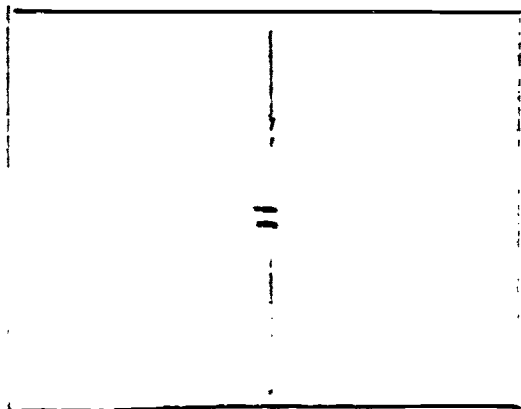
$$3 + 7 = 6 + 4$$

$$7 + 3 = 6 + 4$$

TEN



TEN



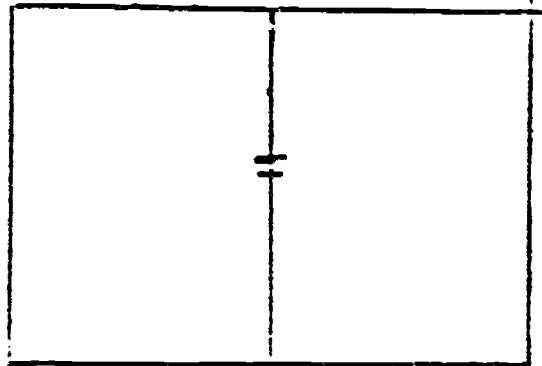
The Same Number - Many Ways

NUMBER

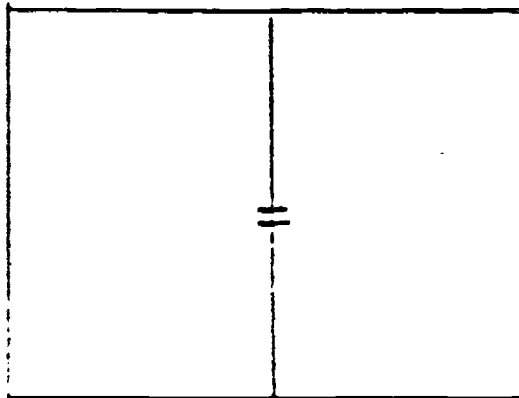
PICTURE

NUMBER SENTENCES

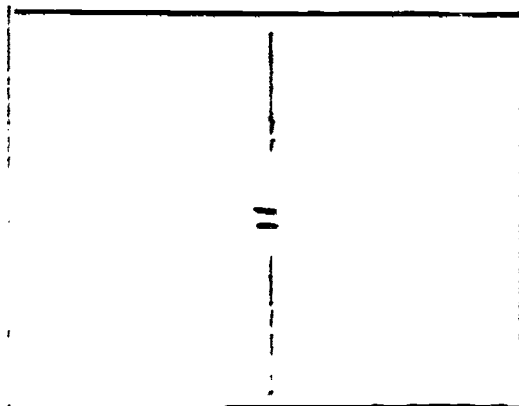
NINE



NINE



ELEVEN



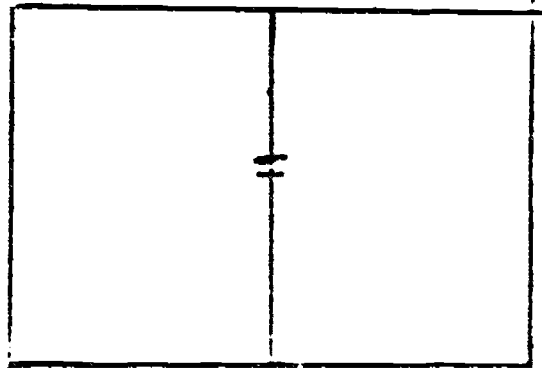
The Same Number - Many Ways

NUMBER

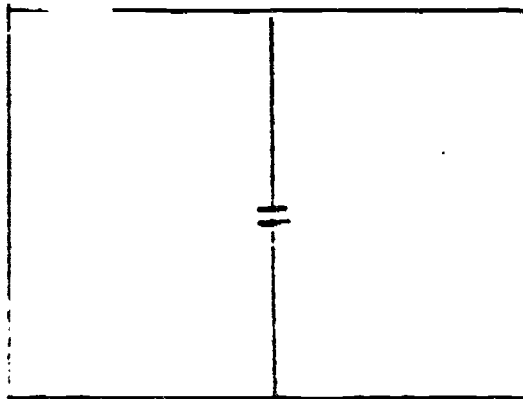
PICTURE

NUMBER SENTENCES

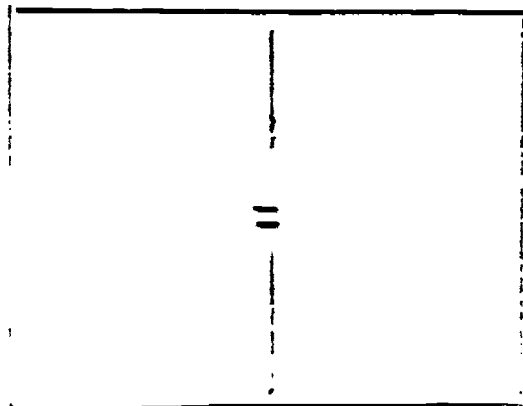
ELEVEN



TWELVE



TWELVE



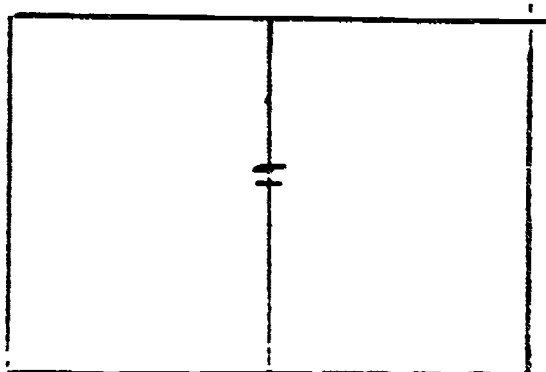
The Same Number - Many Ways

NUMBER

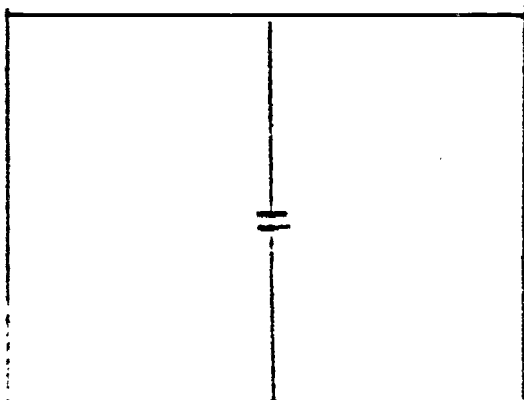
PICTURE

NUMBER SENTENCES

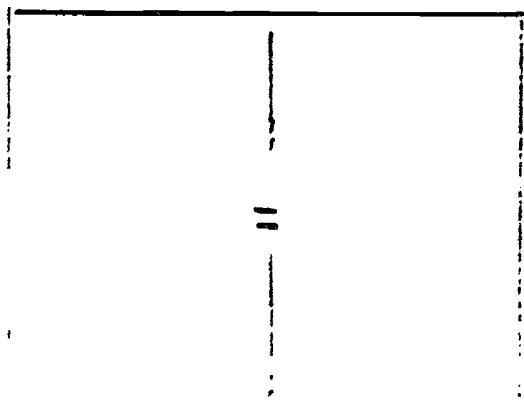
EIGHT



EIGHT



THIRTEEN



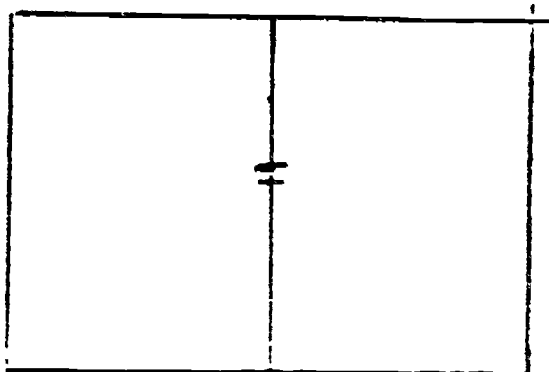
The Same Number - Many Ways

NUMBER

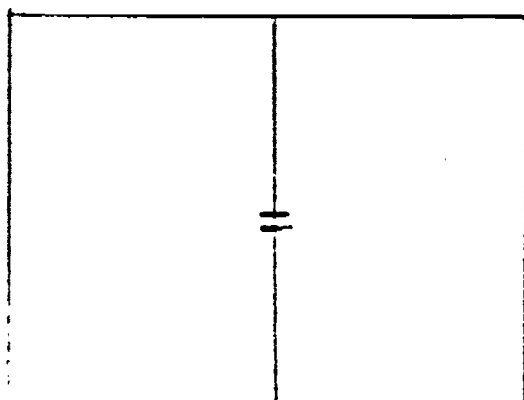
PICTURE

NUMBER SENTENCES

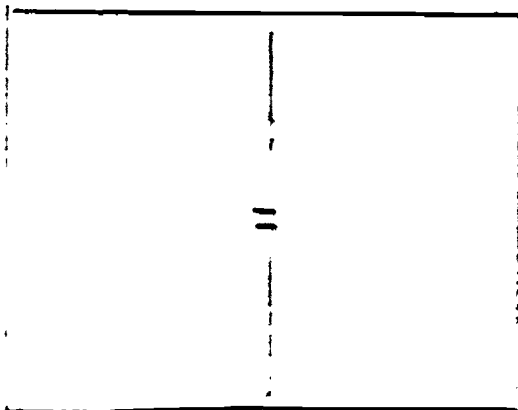
THIRTEEN



THIRTEEN

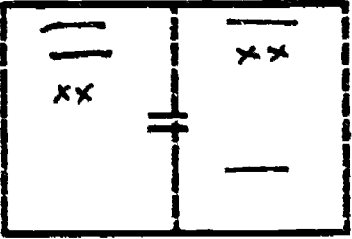
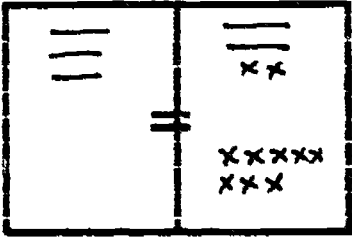
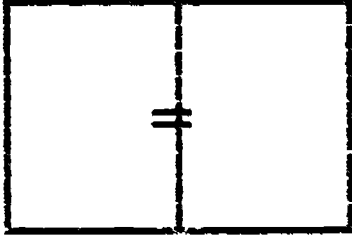
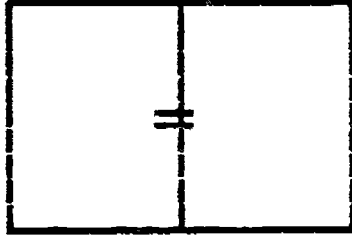
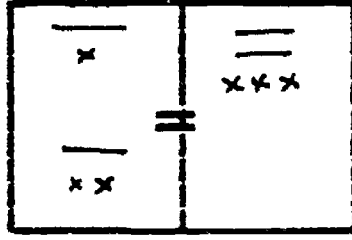


EIGHT



MATHEMATICIAN: _____

MY EQUALITY BOARD RECORDS

EQUALITY BOARD	NUMBER SENTENCES
	
	
	$20 = 12 + 8$
	$7 + 15 = 22$
	

MATHEMATICIAN: _____

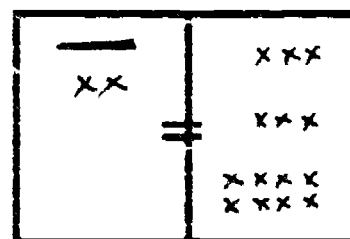
MY EQUALITY BOARD RECORDS

NUMBER SENTENCES

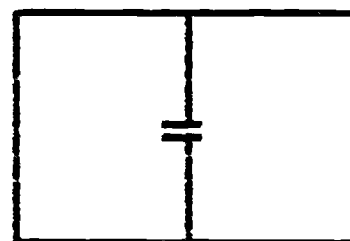
EQUALITY BOARD

Example:

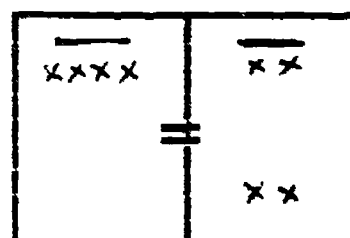
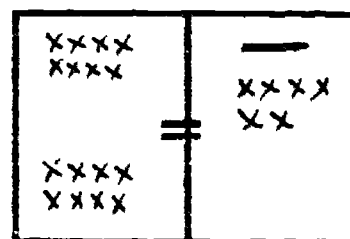
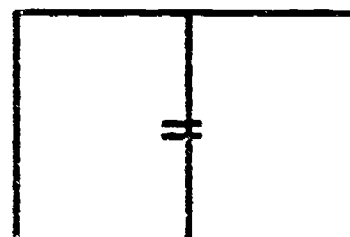
$$12 = 3 + 3 + 6$$



$$11 = 2 + 3 + 6$$



$$1 + 3 + 4 + 5 = 13$$

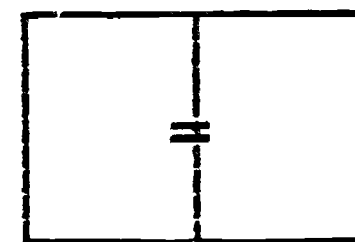
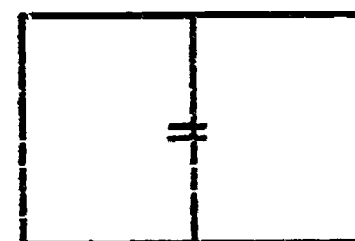
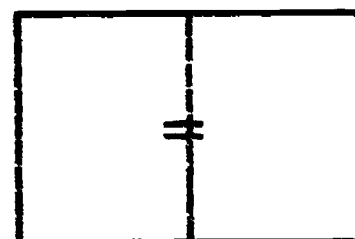
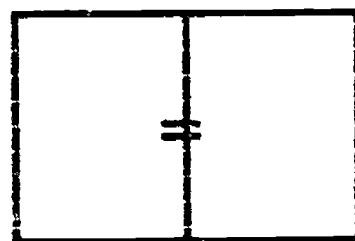
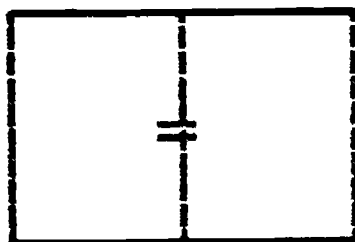


MATHEMATICIAN: _____

MY EQUALITY BOARD RECORDS

EQUALITY BOARD

NUMBER SENTENCES



MATHEMATICIAN: _____

My Record of 3 : 1

[illegible]

MATHEMATICIAN: _____

My Record of 2 : 3

No. of Links Used	Color A	Color B	Ratio
1	2	3	2:3
3			
			7:1
5	10		
			12:18
7			
8			
9			
10			
11			
		76	

My Cuisenaire Rod Fractions

1. Find A rod for the outline.
2. Find another rod that is ONE HALF of this one.
3. Color ONE HALF of the outline the same color as the ONE HALF rod.
4. Write the word for the rod after ONE HALF = , if you can.



ONE HALF =



ONE HALF =



ONE HALF =



ONE HALF =



ONE HALF =



ONE HALF =



ONE HALF =



ONE HALF =



ONE HALF =



ONE HALF =

MATHEMATICIAN: _____

Pg. 2



ONE THIRD =



ONE THIRD =



ONE THIRD =



ONE THIRD =



ONE THIRD =



ONE THIRD =



ONE THIRD =



ONE THIRD =



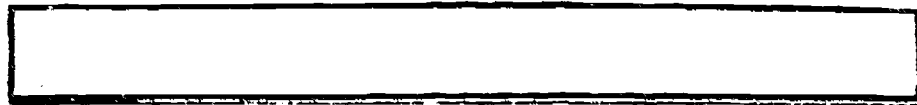
ONE THIRD =



ONE THIRD =

MATHEMATICIAN: _____

Pg. 3



ONE FOURTH =



ONE FOURTH =



ONE FOURTH =



ONE FOURTH =



ONE FOURTH =



ONE FOURTH =



ONE FOURTH =



ONE FOURTH =



ONE FOURTH =



ONE FOURTH =

--	--

ONE HALF =

ONE THIRD =

ONE FOURTH =

--	--

ONE HALF =

ONE THIRD =

ONE FOURTH =

--	--

ONE HALF =

ONE THIRD =
ONE FOURTH =

--	--

ONE HALF =

ONE THIRD =

ONE FOURTH =

--	--

ONE HALF =

ONE THIRD =

ONE FOURTH =

MATHEMATICIAN: _____

Cuisenaire Rods

Beneath each rod outline, trace the rod that is one third of it. Color in both.
If you can't find a rod that works, write NONE.

Example:



THIRD

None



THIRD: NONE



THIRD:

W



HALF:

R



THIRD:



HALF:



THIRD:



HALF:

THIRD.



HALF.



THIRD



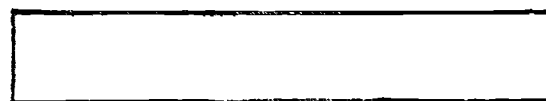
HALF.



THIRD



HALF.



MATHEMATICIAN:_____

				k	m				
		e		g					
	j			b					
	PURPLE				h				
f				c					
d				i					
			l	n					

Rule: White = 1

ACROSS

a) $1/2 \times 8 = \underline{\hspace{2cm}}$

b) $1/2 \times 6 =$ _____

c) $\frac{1}{3} \times 15 = \underline{\hspace{2cm}}$

d) $1/2 \times 12 = \underline{\hspace{2cm}}$

e) $1/3 \times 6 = \underline{\hspace{2cm}}$

f) $1/2 \times 10 = \underline{\hspace{2cm}}$

g) $1/4 \times 8 = \underline{\hspace{2cm}}$

h) $\frac{1}{3} \times 12 =$ _____

i) $1/2 \times 12 = \underline{\hspace{2cm}}$

j) $1/3 \times 9 = \underline{\hspace{2cm}}$

DOWN

k) $1/4 \times 4 = \underline{\hspace{2cm}}$

i) $1/5 \times 10 = \underline{\hspace{2cm}}$

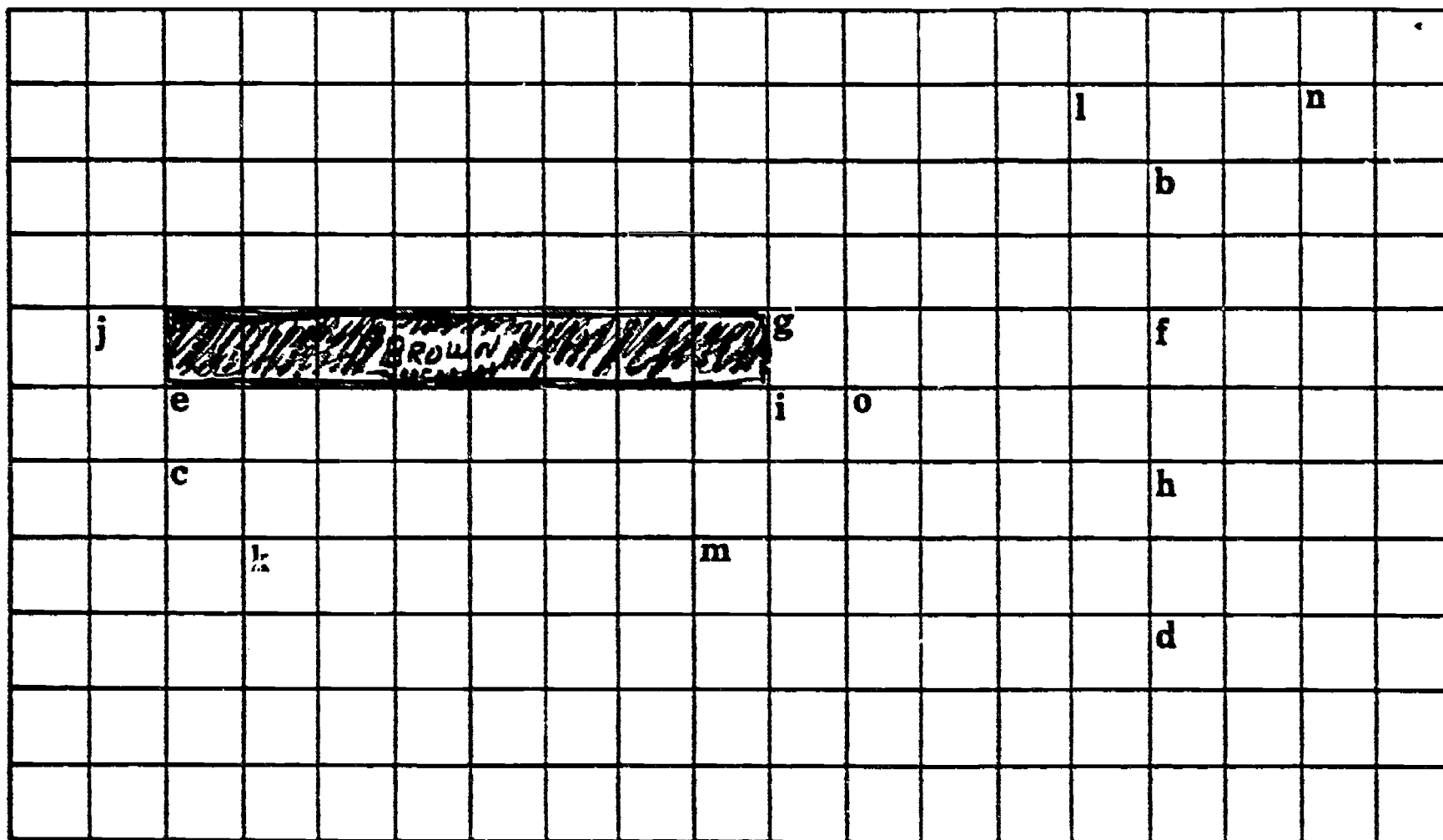
m) $1/3 \times 3 =$ _____

n) $1'4 \times 8 = \underline{\hspace{2cm}}$

ROD WORK AREA

[illegible]

MATHEMATICIAN: _____



RULE: WHITE = 1

ACROSS

a) $1/2 \times 16 = \underline{\hspace{2cm}}$

b) $1/2 \times 4 = \underline{\hspace{2cm}}$

c) $1/2 \times \underline{\hspace{2cm}} = 4$

d) $6 \times 1/3 = \underline{\hspace{2cm}}$

e) $16 \times 1/2 = \underline{\hspace{2cm}}$

f) $1/4 \times 8 = \underline{\hspace{2cm}}$

g) $1/5 \times 5 = \underline{\hspace{2cm}}$

h) $1/6 \times 12 = \underline{\hspace{2cm}}$ ROD WORK AREA

DOWN

i) $1/4 \times 8 = \underline{\hspace{2cm}}$

j) $1/3 \times 9 = \underline{\hspace{2cm}}$

k) $1/4 \times 4 = \underline{\hspace{2cm}}$

l) $1/3 \times \underline{\hspace{2cm}} = 3$

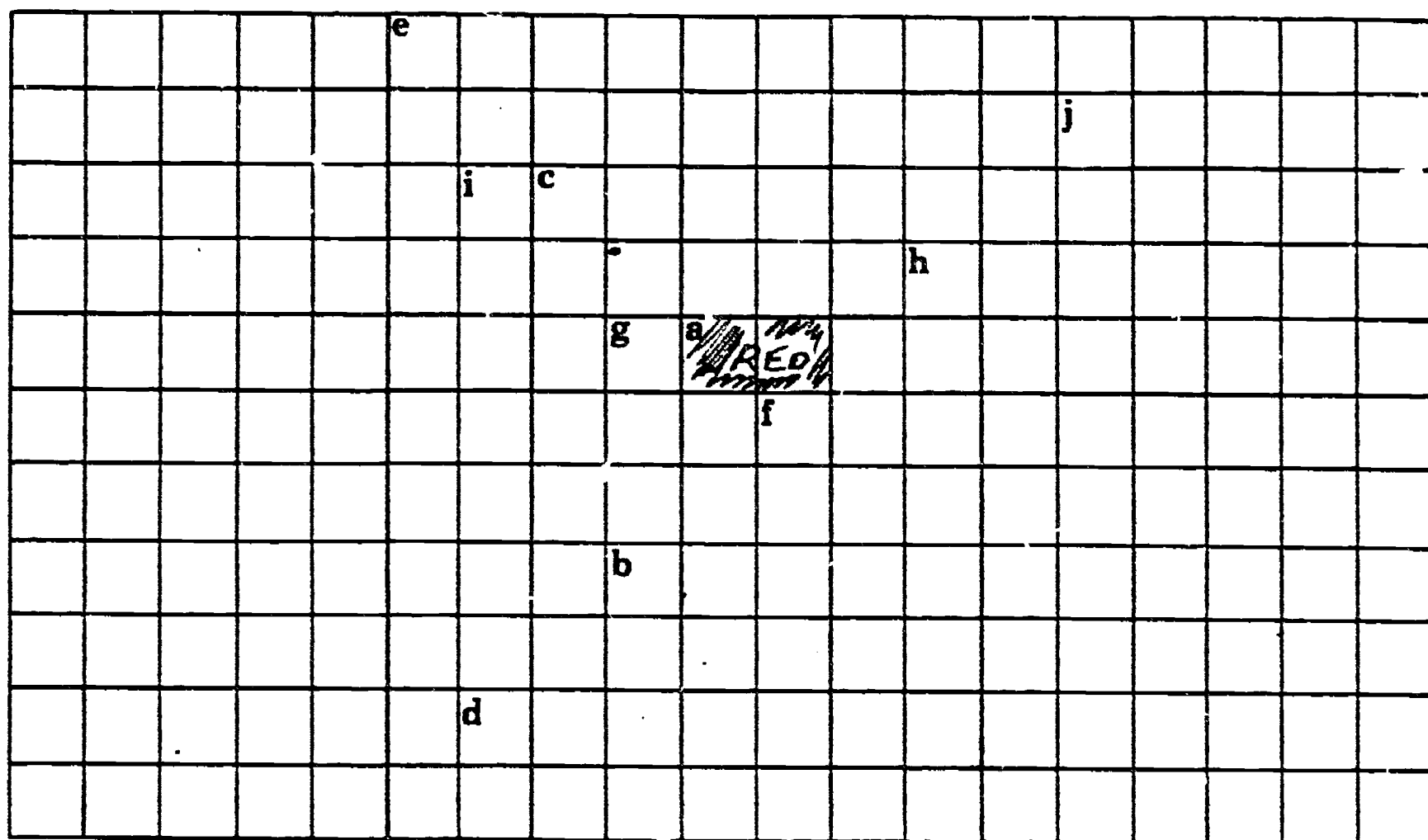
m) $1/5 \times 5 = \underline{\hspace{2cm}}$

n) $\underline{\hspace{2cm}} \times 1/3 = 3$

o) $1/4 \times 8 = \underline{\hspace{2cm}}$

										84									

MATHEMATICIAN: _____



RULE: WHITE = 1

ACROSS

a) $1/3 \times 6 = \underline{\quad}$

b) $1/3 \times 12 = \underline{\quad}$

c) $1/3 \times 18 = \underline{\quad}$

d) $1/3 \times 24 = \underline{\quad}$

e) $1/3 \times 30 = \underline{\quad}$

DOWN

f) $1/3 \times 3 = \underline{\quad}$

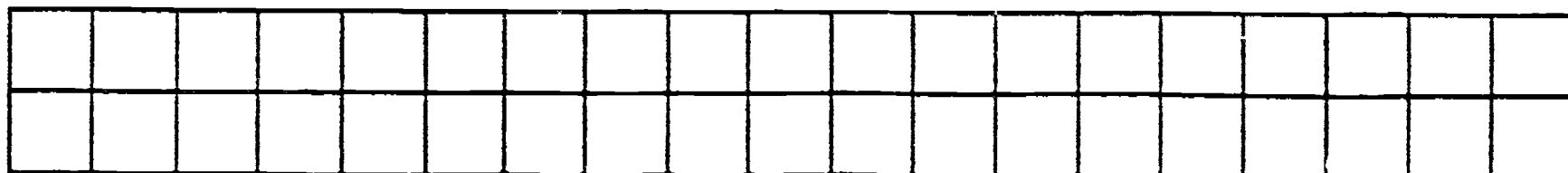
g) $1/3 \times 9 = \underline{\quad}$

h) $1/3 \times 15 = \underline{\quad}$

i) $1/3 \times 21 = \underline{\quad}$

j) $1/3 \times 27 = \underline{\quad}$

ROD WORK AREA



MATHEMATICIAN:_____

[illegible]

RULE: WHITE = 1

ACROSS

a) $1/2 \times 4 = \underline{\hspace{2cm}}$

b) $1/2 \times 20 = \underline{\hspace{2cm}}$

c) $1/2 \times 12 = \underline{\hspace{2cm}}$

d) $1/2 \times 16 = \underline{\hspace{2cm}}$

e) $1/2 \times 8 = \underline{\hspace{2cm}}$

DOWN

f) $1/2 \times 18 = \underline{\hspace{2cm}}$

g) $1/2 \times 2 = \underline{\hspace{2cm}}$

h) $1/2 \times 10 = \underline{\hspace{2cm}}$

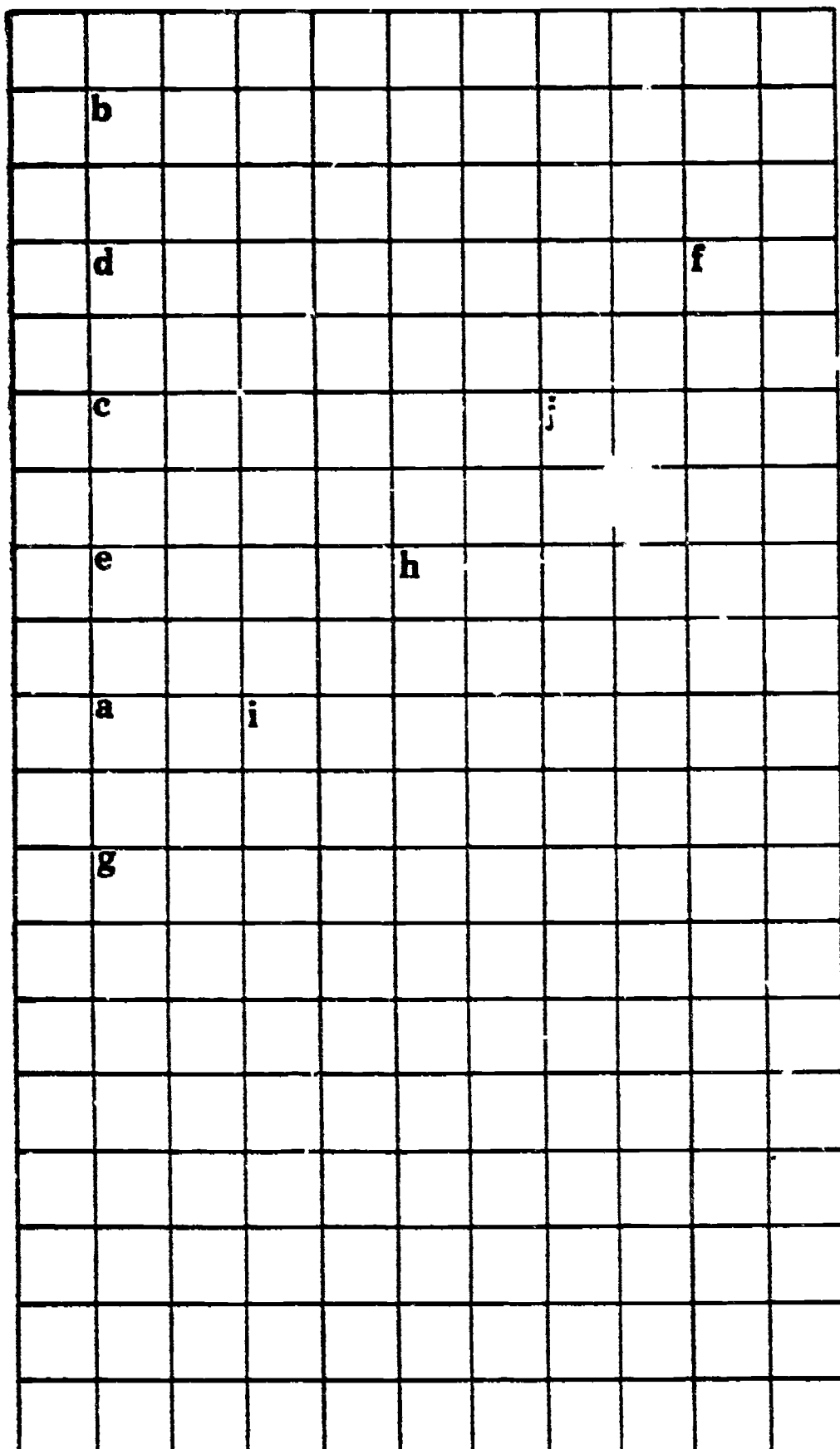
i) $1/2 \times 6 = \underline{\hspace{2cm}}$

j) $1/2 \times 14 = \underline{\hspace{2cm}}$

ROD WORK AREA

[illegible]

Turning Corners



Rule: White = 1

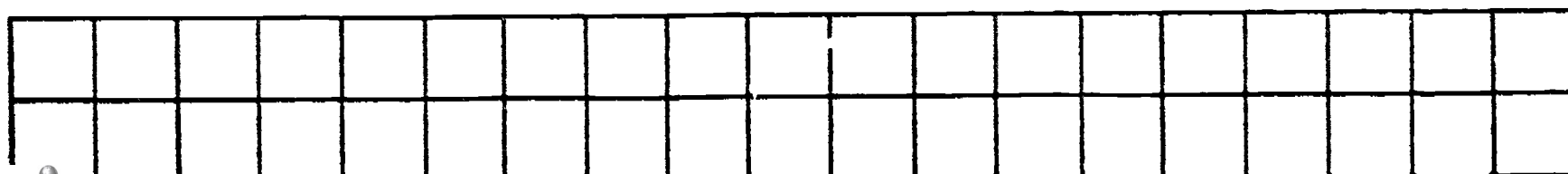
ACROSS

- a) $\frac{1}{2} \times 4 = \underline{\hspace{2cm}}$
- b) $\frac{1}{2} \times 20 = \underline{\hspace{2cm}}$
- c) $\frac{1}{2} \times 12 = \underline{\hspace{2cm}}$
- d) $\frac{1}{2} \times 16 = \underline{\hspace{2cm}}$
- e) $\frac{1}{2} \times 8 = \underline{\hspace{2cm}}$

DOWN

- f) $\frac{1}{2} \times 18 = \underline{\hspace{2cm}}$
- g) $\frac{1}{2} \times 2 = \underline{\hspace{2cm}}$
- h) $\frac{1}{2} \times 10 = \underline{\hspace{2cm}}$
- i) $\frac{1}{2} \times 6 = \underline{\hspace{2cm}}$
- j) $\frac{1}{2} \times 14 = \underline{\hspace{2cm}}$

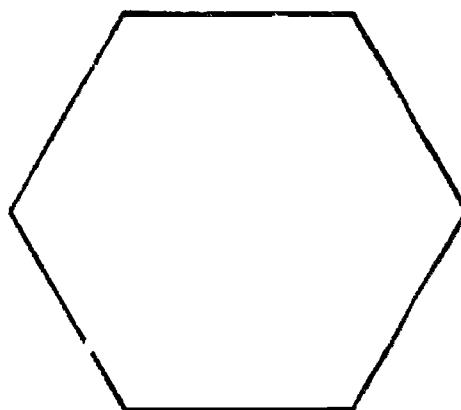
ROD WORK AREA



Mathematician: _____

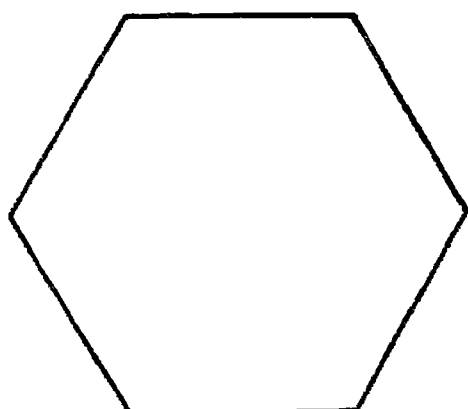
Working with Fractions

Cover the figure with blue shapes.

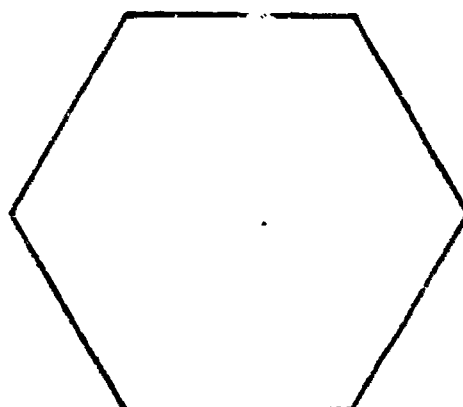


How many did you use? The blue shape is of the whole.
(fraction)

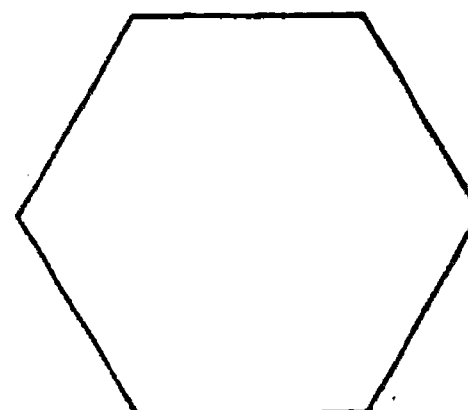
For each, cover as asked



Cover $\frac{1}{3}$



Cover $\frac{2}{3}$

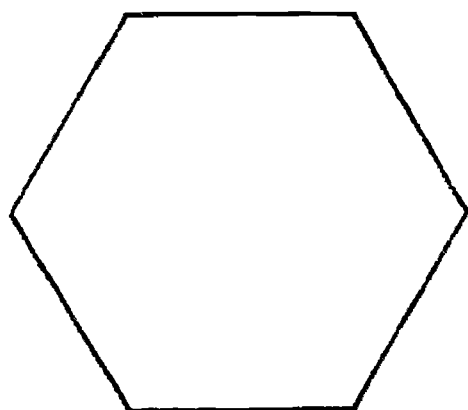


Cover $\frac{3}{3}$

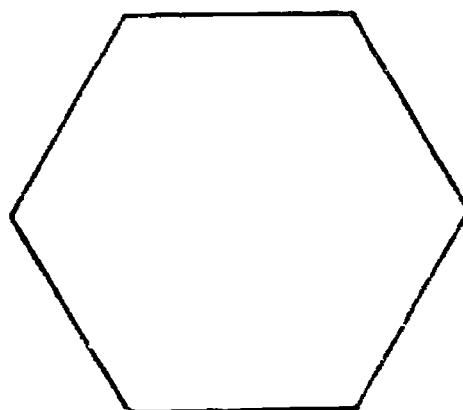
Cover the shape above with green shapes. How many did you use? _____

The green shape is of the whole.
(fraction)

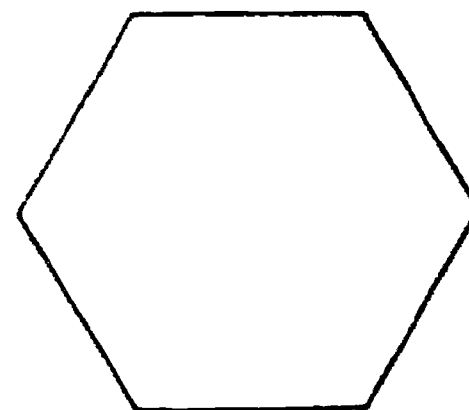
For each, cover as asked



Cover $\frac{1}{6}$

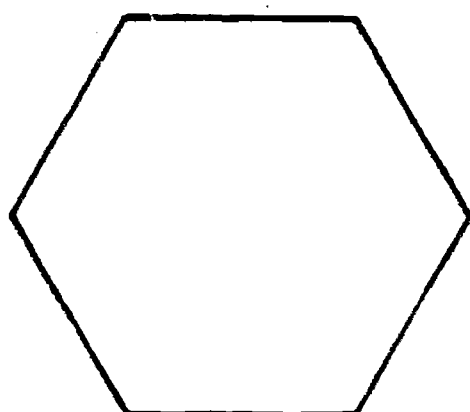


Cover $\frac{2}{6}$

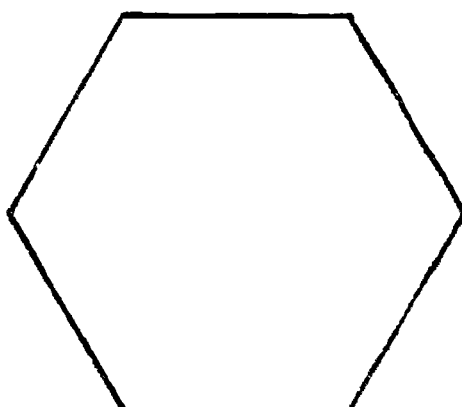


Cover $\frac{3}{6}$

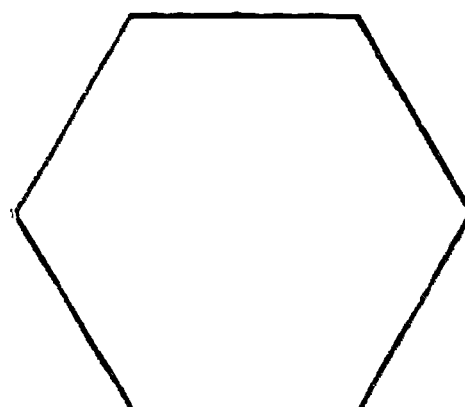
What is another name for $\frac{2}{6}$? _____



(Cover 4/6)

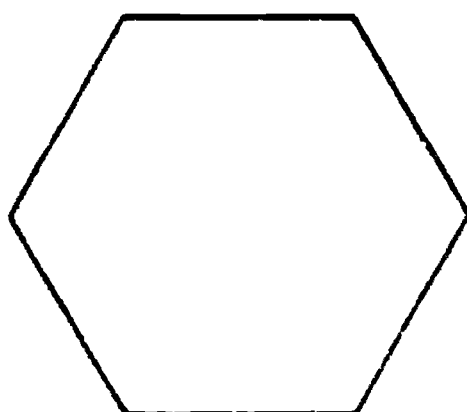


(Cover 5/6)

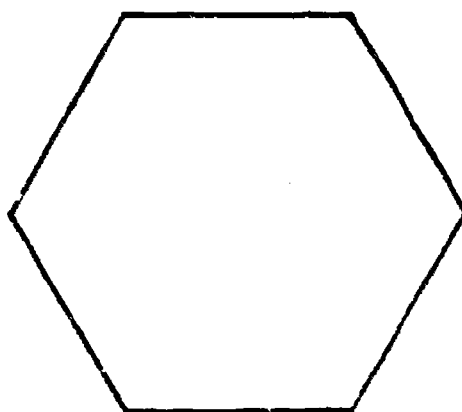


(Cover 6/6)

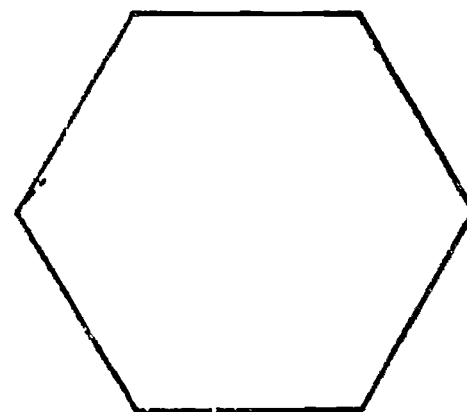
Use the yellow shape with green pieces to complete the sentences:



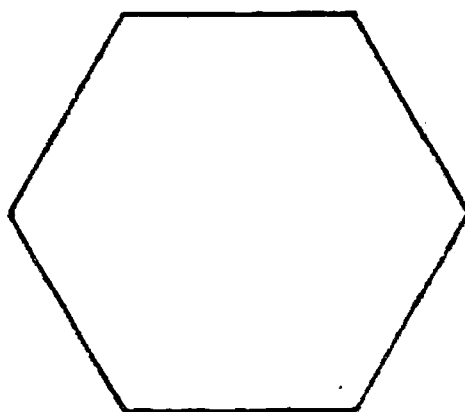
$$\frac{1}{6} + \frac{1}{6} = \underline{\hspace{2cm}}$$



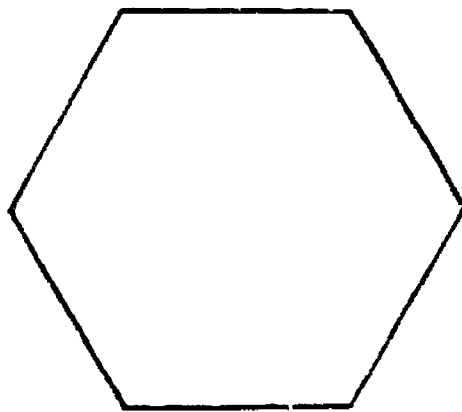
$$\frac{1}{6} + \frac{2}{6} = \underline{\hspace{2cm}}$$



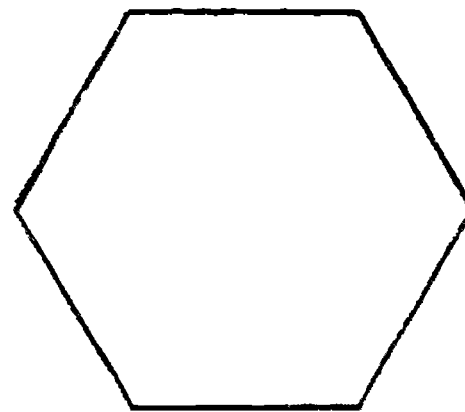
$$\frac{2}{6} + \frac{2}{6} = \underline{\hspace{2cm}}$$



$$\frac{1}{6} + \frac{3}{6} = \underline{\hspace{2cm}}$$

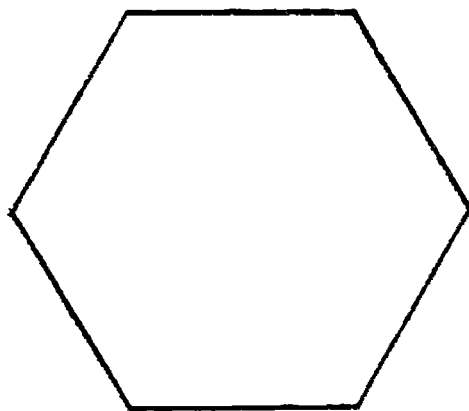


$$\frac{2}{6} + \frac{3}{6} = \underline{\hspace{2cm}}$$

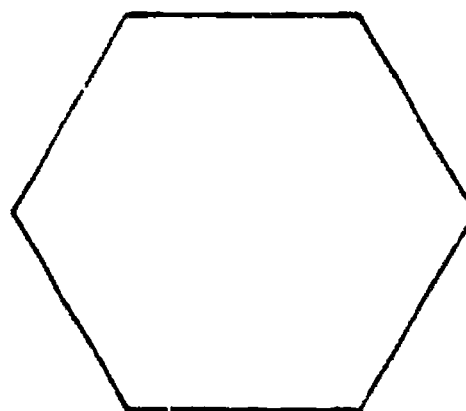


$$\frac{3}{6} + \frac{3}{6} = \underline{\hspace{2cm}}$$

Use the yellow shape with green to complete the sentences:



$$\frac{1}{3} + \frac{1}{3} = \underline{\hspace{2cm}}$$

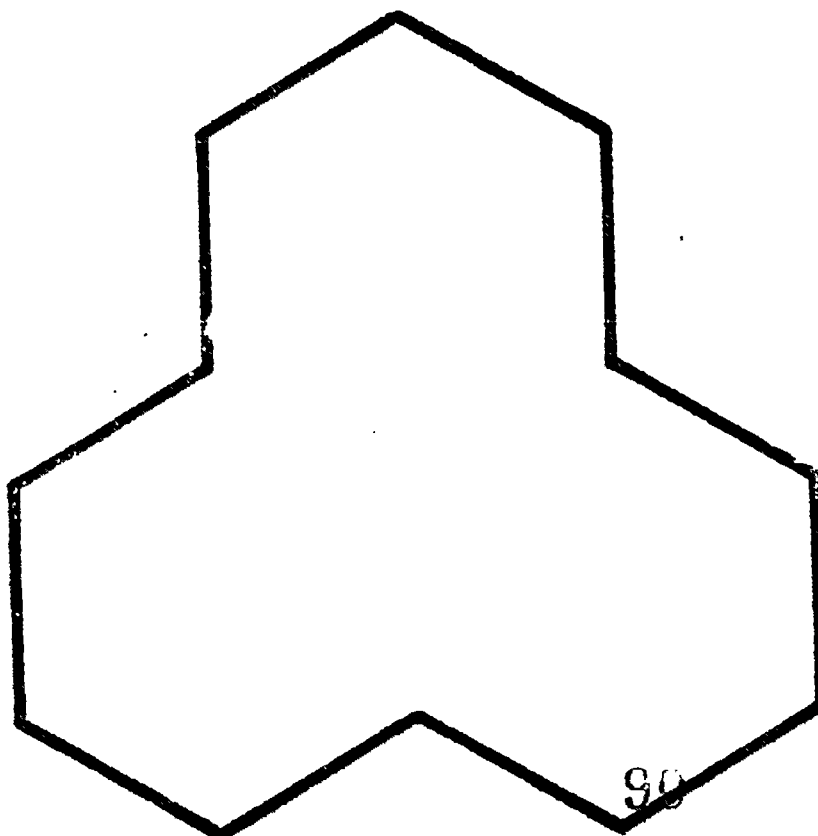
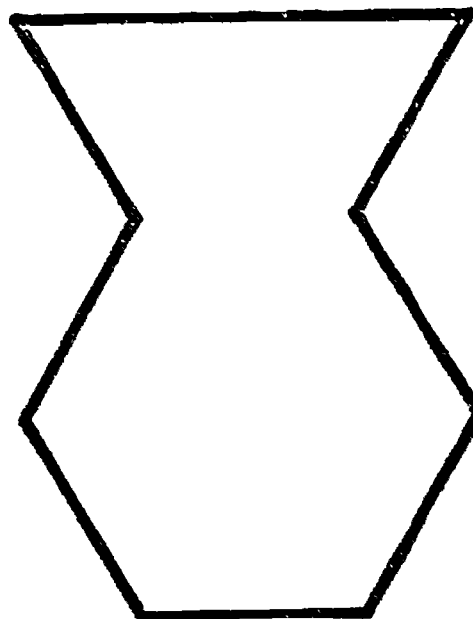
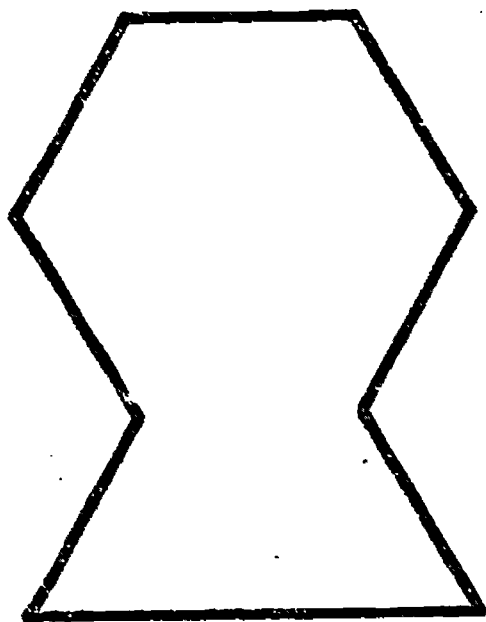


$$\frac{1}{3} + \frac{2}{3} = \underline{\hspace{2cm}}$$

Mathematician: _____

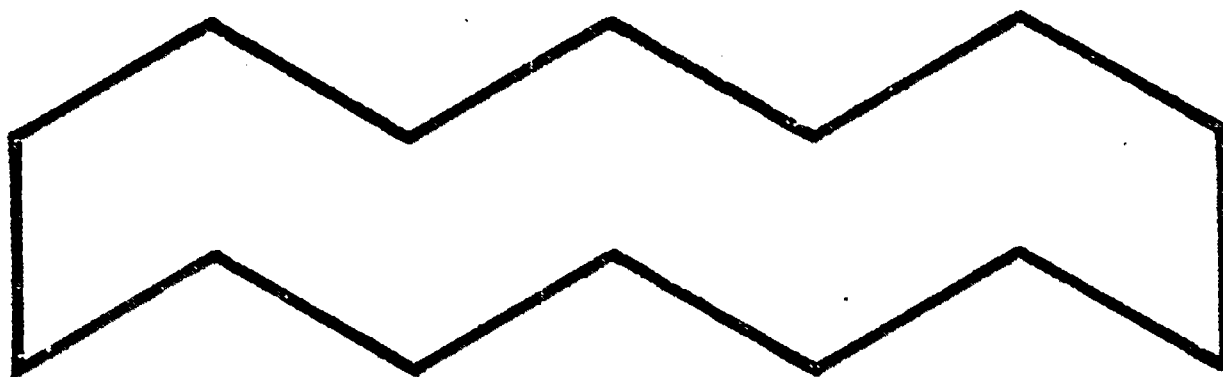
More Fractions

- 1) Cover each figure with 3 blocks of the same color.
- 2) Shade $\frac{1}{3}$ of each figure.
- 3) Cover $\frac{2}{3}$ of each figure with yellow blocks.

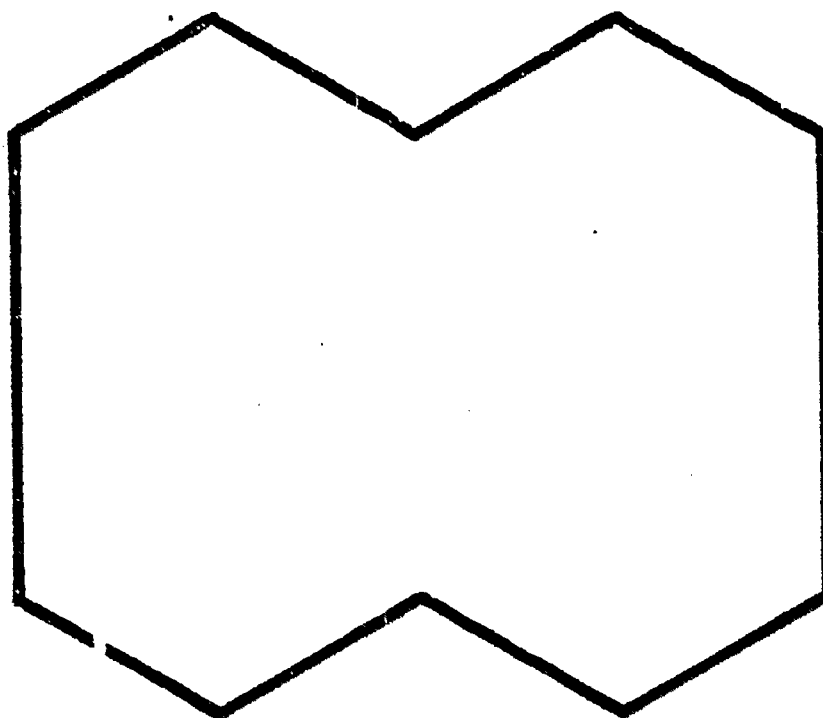


Mathematician: _____

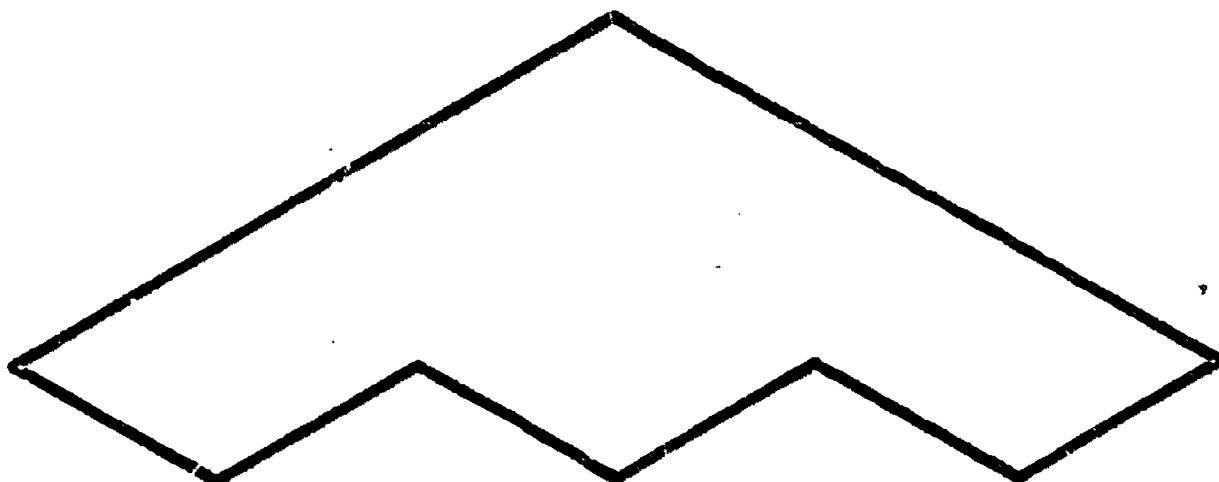
More Fractions



Cover $\frac{1}{2}$ green and $\frac{1}{2}$ blue.



Cover $\frac{1}{2}$ blue and $\frac{1}{2}$ green.



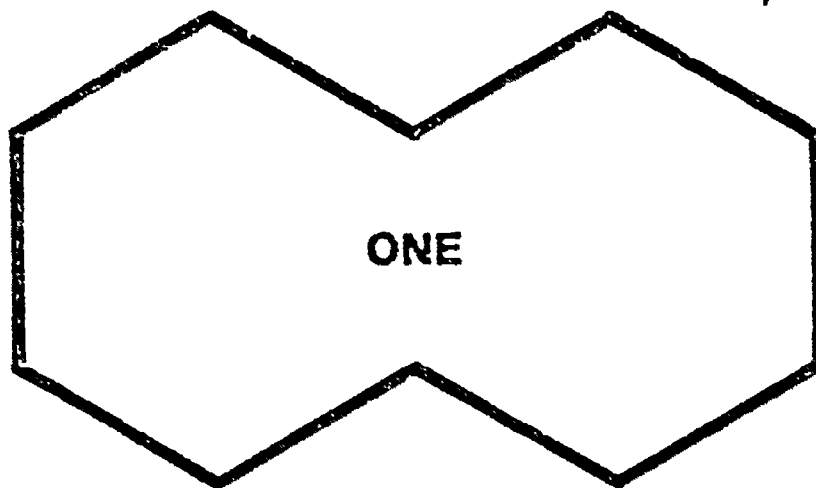
Cover $\frac{1}{2}$ green and $\frac{1}{2}$ blue.

Mathematician: _____

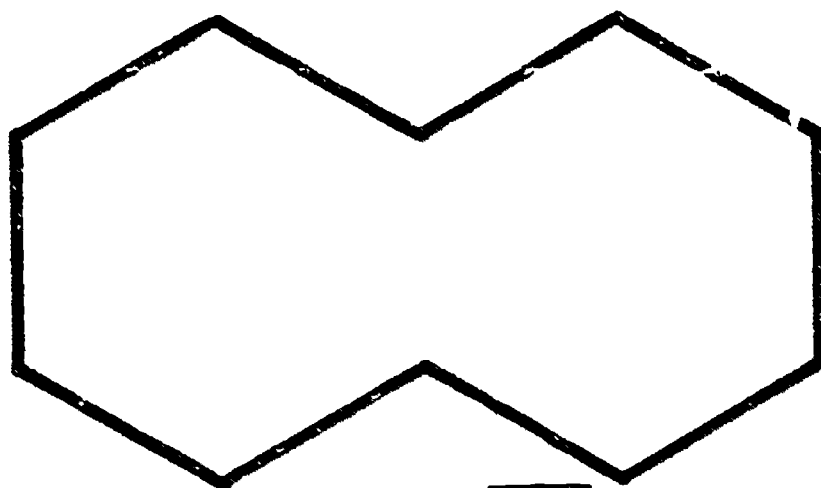
Harder Fractions

Addition of fractions involves combining parts. With pattern blocks this means putting together blocks.

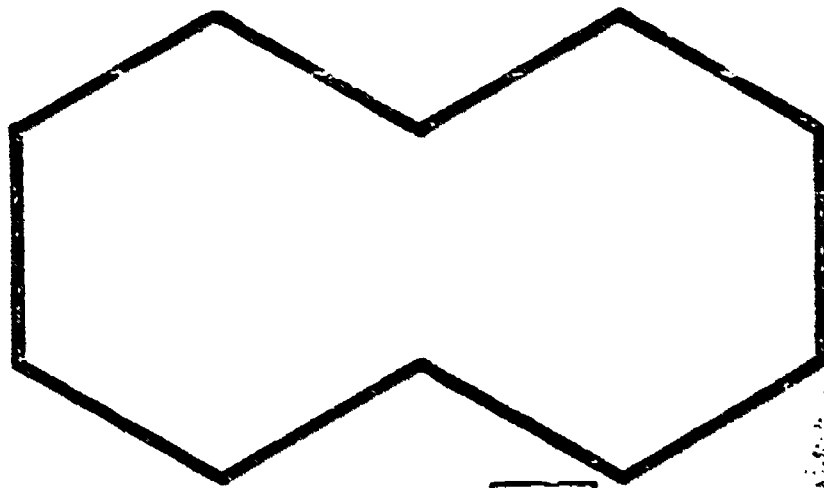
$$\begin{array}{c} \text{trapezoid} + \text{trapezoid} = \text{hexagon} \\ \frac{1}{4} + \frac{1}{4} = \frac{2}{4} \end{array}$$



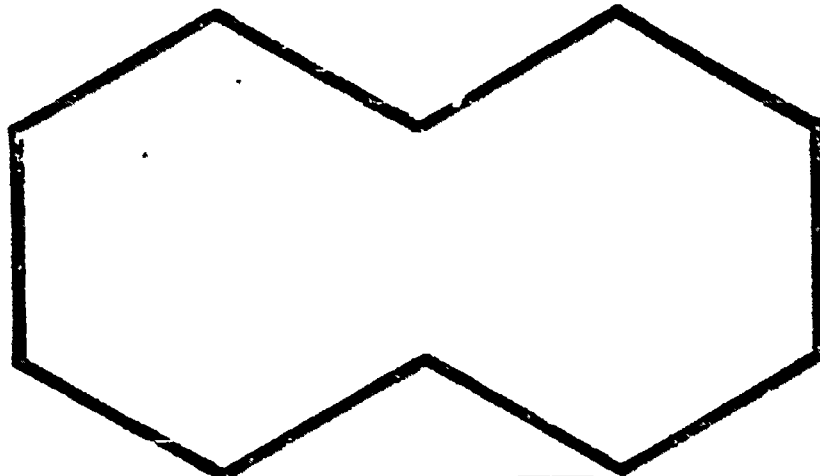
Use red trapezoids to solve each problem.



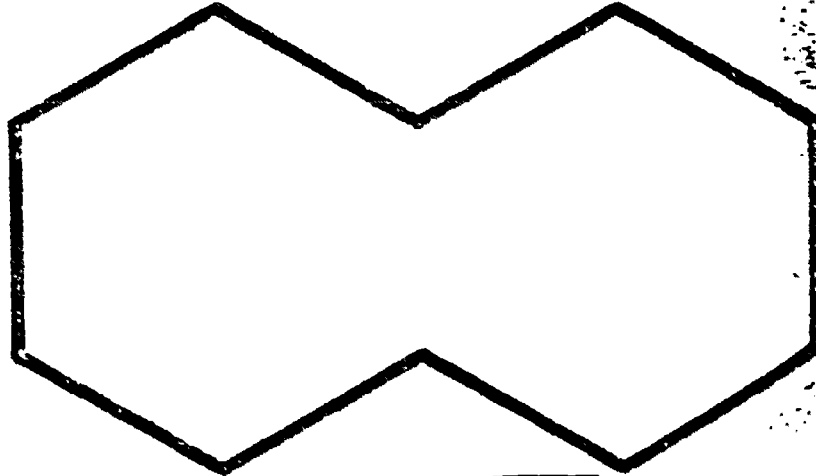
$$1) \frac{1}{4} + \frac{3}{4} = \square$$



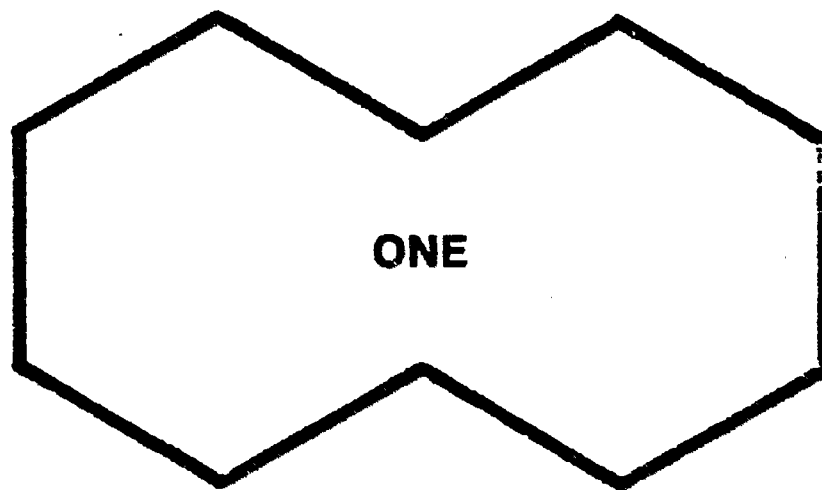
$$2) \frac{2}{4} + \frac{1}{4} = \square$$



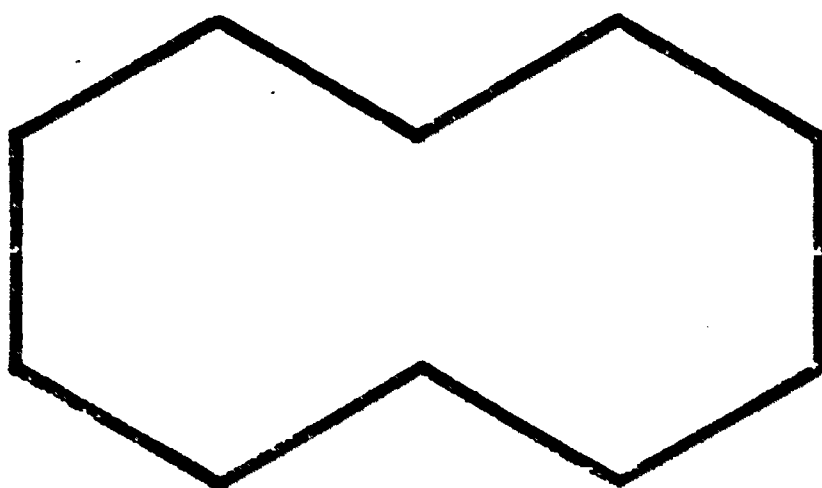
$$3) \frac{3}{4} + \frac{1}{4} = \square$$



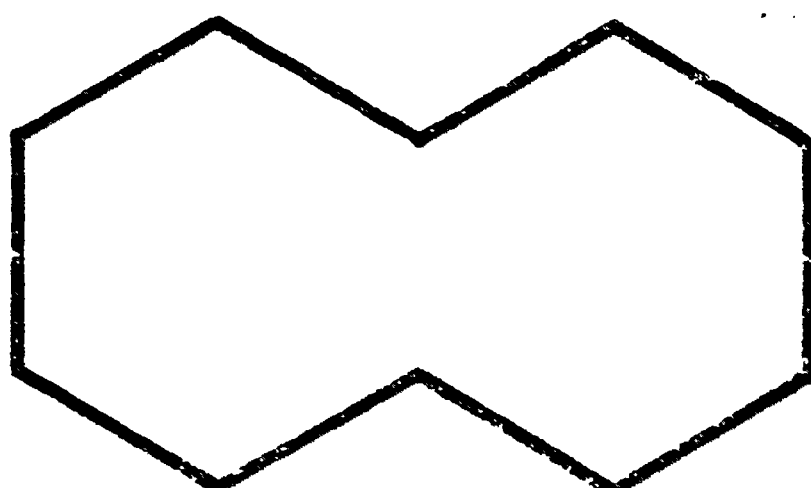
$$4) \frac{2}{4} + \frac{2}{4} = \square$$



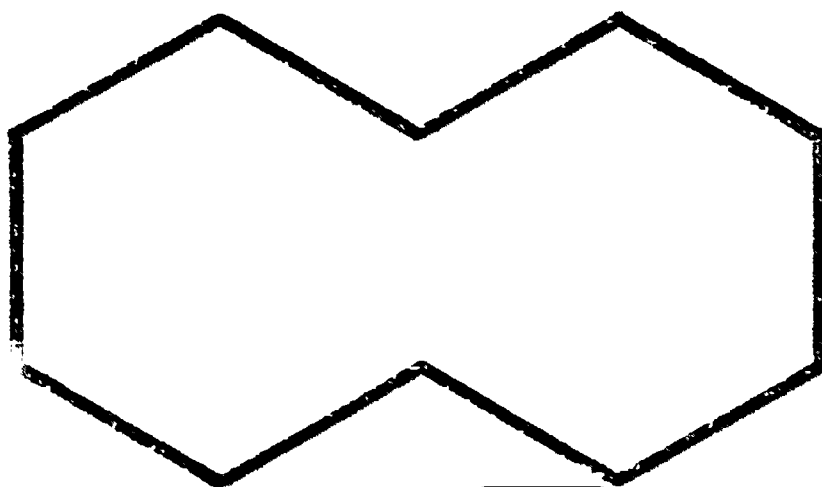
Use blue parallelograms to solve these problems.



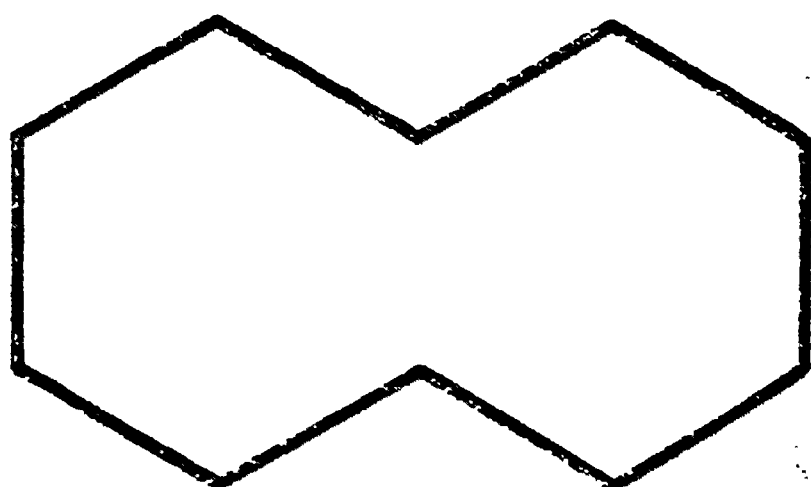
$$1) \frac{2}{6} + \frac{4}{6} = \square$$



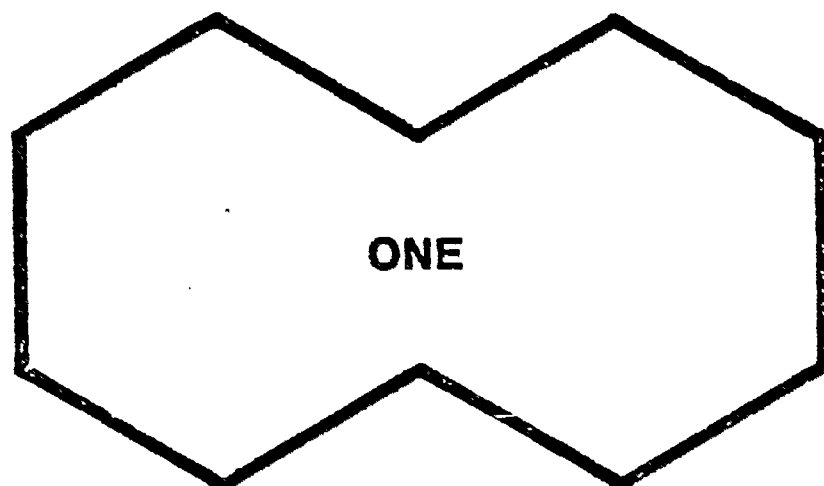
$$2) \frac{3}{6} + \frac{3}{6} = \square$$



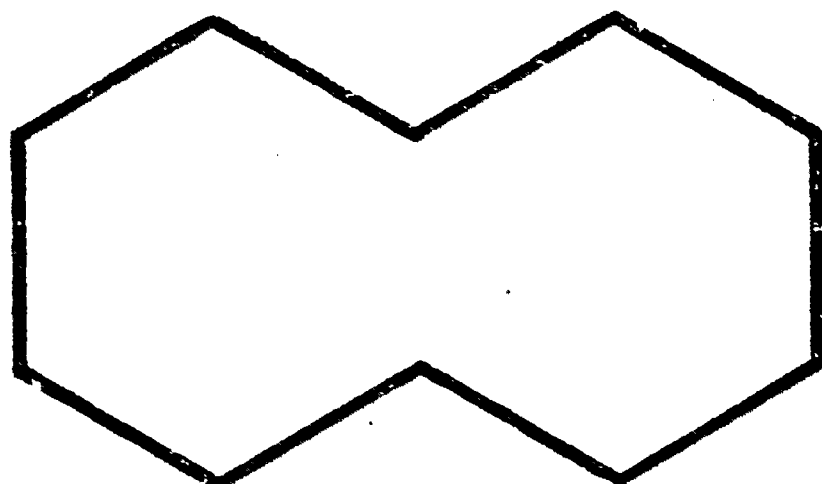
$$3) \frac{1}{6} + \frac{2}{6} = \square$$



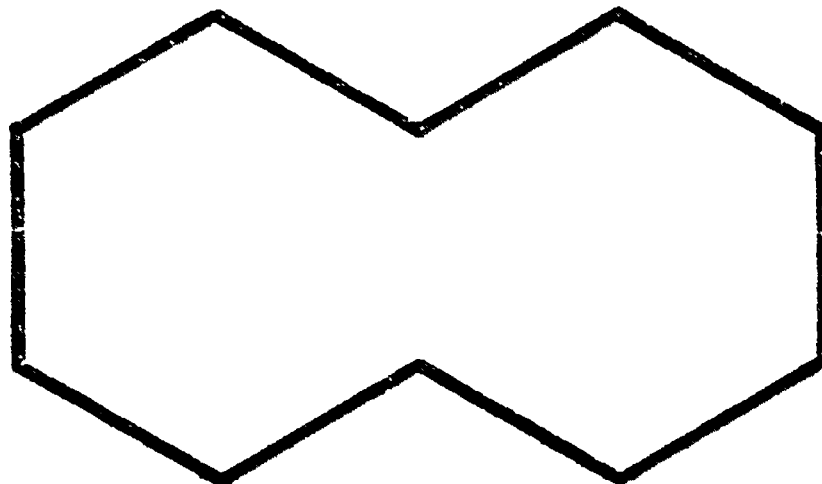
$$4) \frac{2}{6} + \frac{3}{6} = \square$$



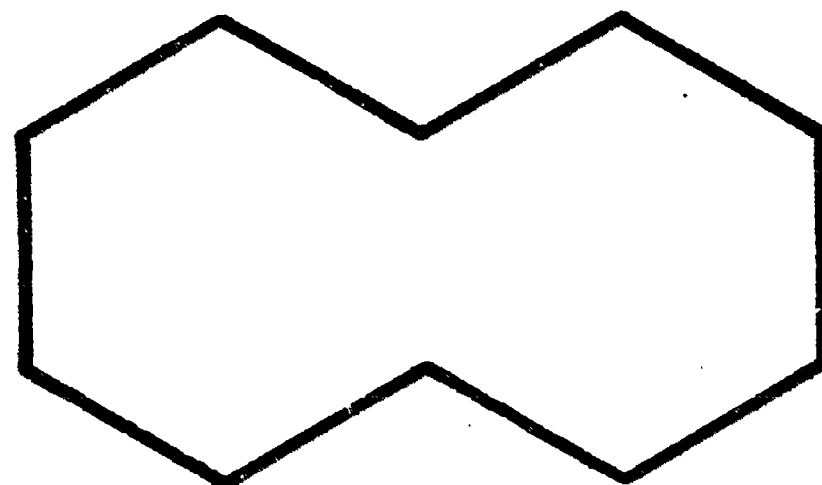
Use pattern blocks to solve these problems.



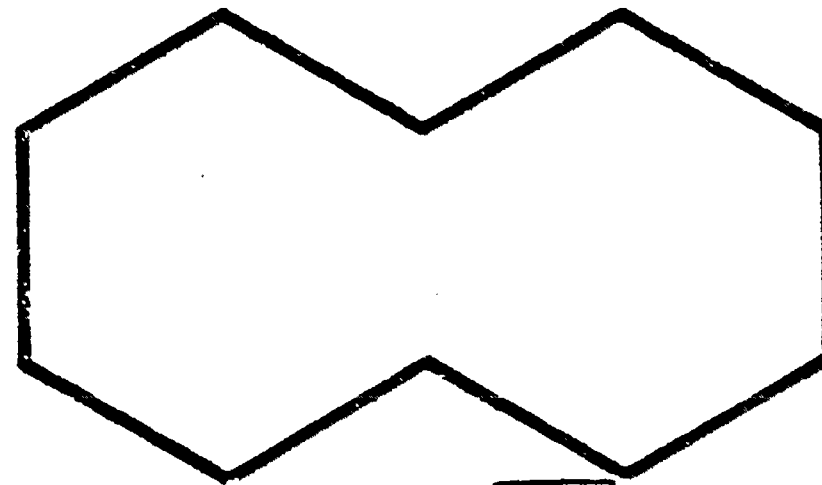
$$1) \frac{1}{6} + \frac{5}{6} = \square$$



$$2) \frac{4}{6} + \frac{1}{6} = \square$$



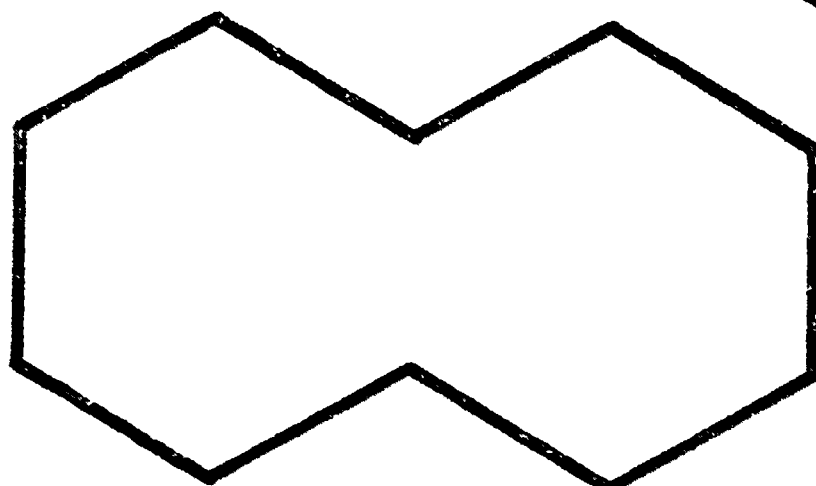
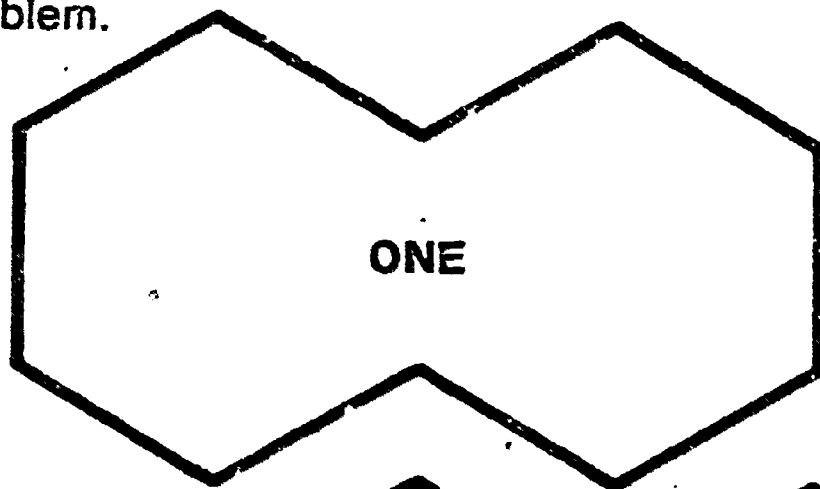
$$3) \frac{1}{6} + \frac{1}{6} = \square$$



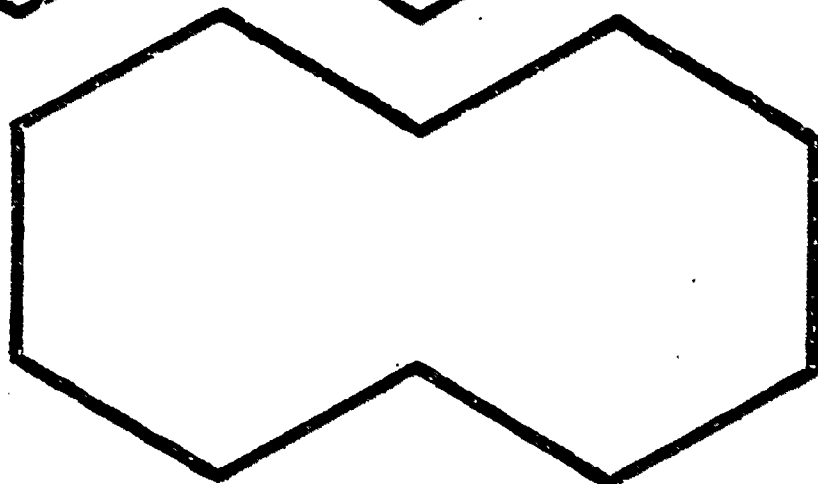
$$4) \frac{2}{6} + \frac{2}{6} = \square$$

Mathematician: _____ Fig. 4

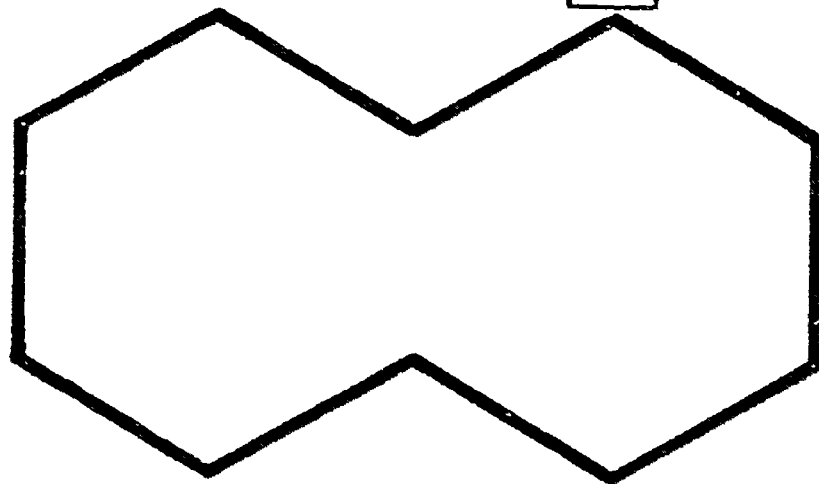
Use blocks to solve each problem.



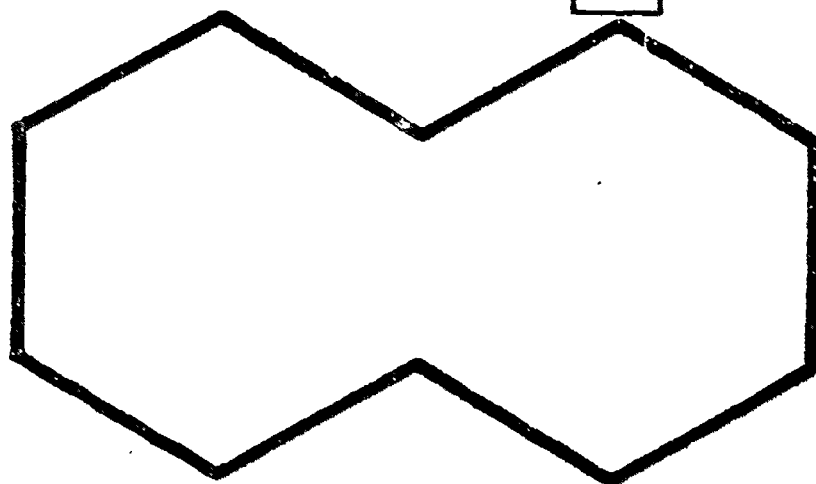
$$1) \frac{1}{6} + \frac{2}{6} + \frac{3}{6} = \square$$



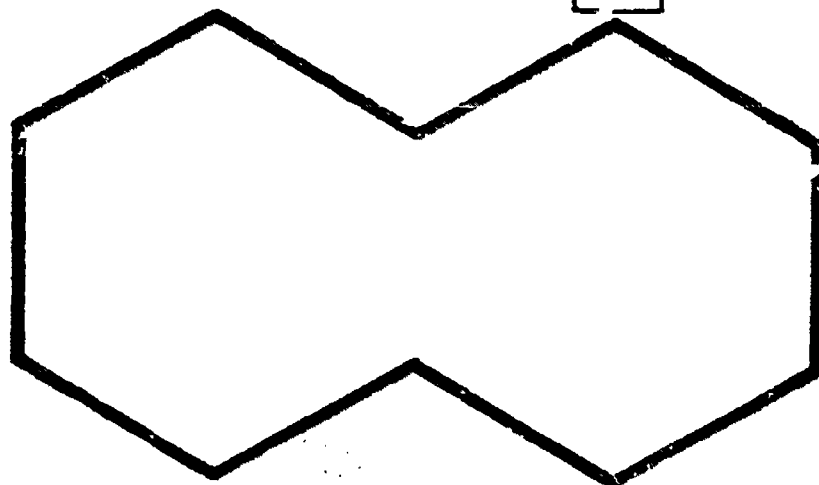
$$2) \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \square$$



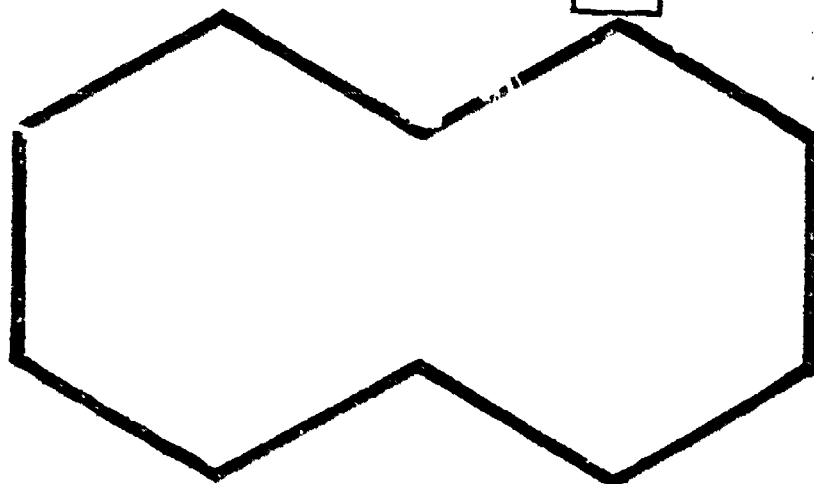
$$3) \frac{1}{6} + \frac{4}{6} + \frac{1}{6} = \square$$



$$4) \frac{2}{6} + \frac{1}{6} + \frac{2}{6} = \square$$



$$5) \frac{2}{6} + \frac{2}{6} + \frac{2}{6} = \square$$



$$6) \frac{1}{6} + \frac{3}{6} + \frac{1}{6} = \square$$

MATHEMATICIAN

My Counting Game Record

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MATHEMATICIAN: _____

Counting with TENS and ONES

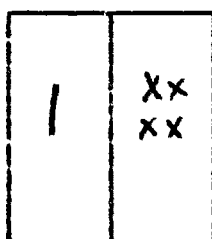
UNIFIX Counted

Picture of Split Board

Name in Tens & Ones

Example:

Fourteen



TENS	ONES
1	4



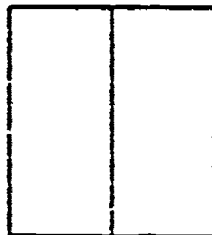
TENS	ONES



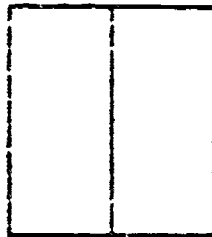
TENS	ONES



TENS	ONES



TENS	ONES



TENS	ONES

MATHEMATICIAN: _____

Counting with TENS and ONES

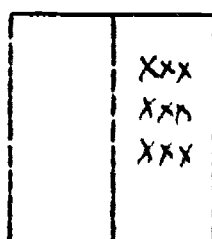
UNIFIX Counted

Picture of Split Board

Name in Tens & Ones

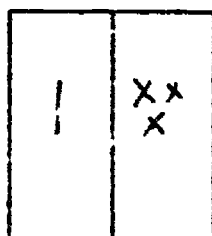
Example:

nine

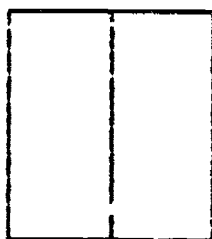


TENS ONES

9



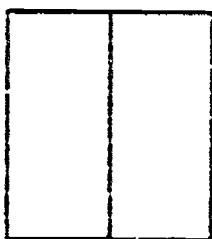
TENS ONES



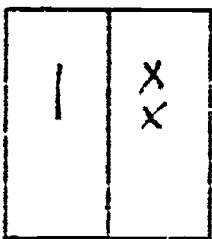
TENS ONES

1 8

eleven



TENS ONES



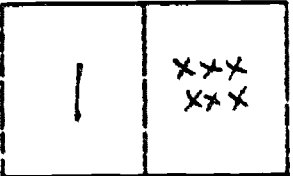
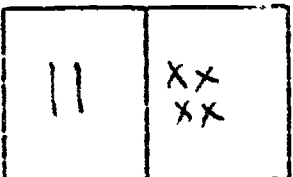
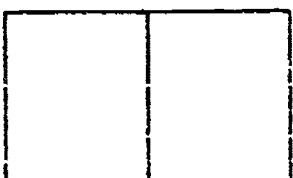
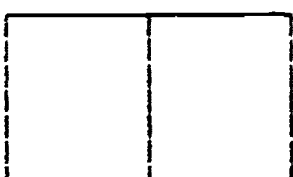
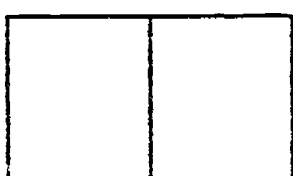
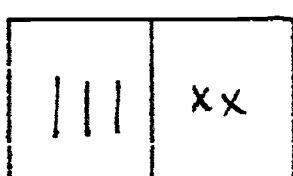
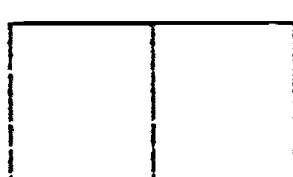
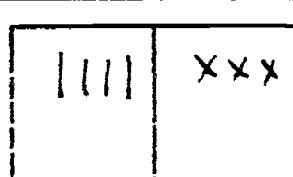
TENS ONES




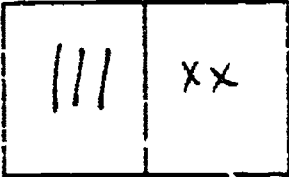


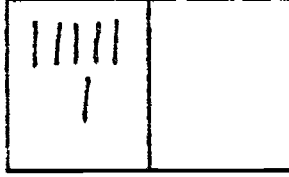
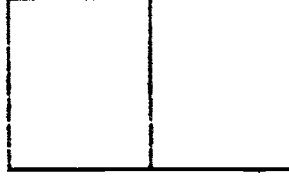
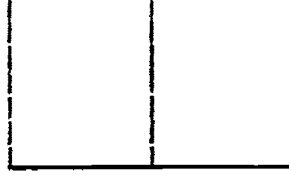

TENS ONES

1 5

Mathematician: _____





























UNIFIX COUNTED	PICTURE OF SPLIT BOARD	NAME IN TENS & ONES	
Example: Sixteen		<u>TENS</u> 1	<u>ONES</u> 6
		<u>TENS</u>	<u>ONES</u>
		<u>TENS</u> 1	<u>ONES</u> 8
		<u>TENS</u>	<u>ONES</u>
Twenty two		<u>TENS</u>	<u>ONES</u>
		<u>TENS</u>	<u>ONES</u>
		<u>TENS</u> 2	<u>ONES</u> 8
		<u>TENS</u>	<u>ONES</u>

Mathematician: _____


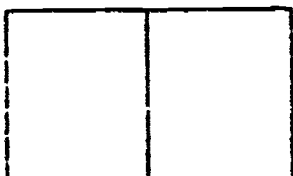
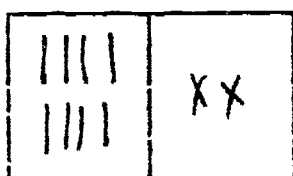
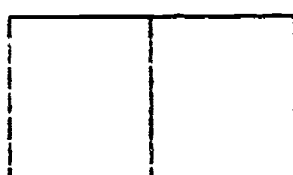
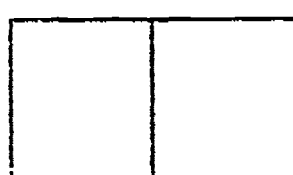
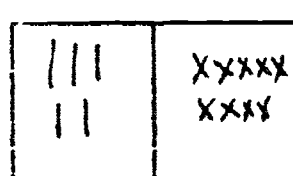
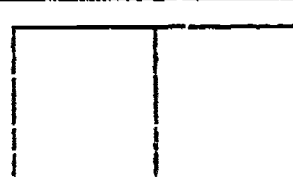
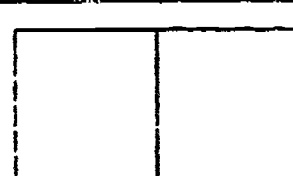
UNIFIX COUNTED	PICTURE OF SPLIT BOARD	NAME IN TENS & ONES	
Eighteen		<u>TENS</u>	<u>ONES</u>
		<u>TENS</u>	<u>ONES</u>
		<u>TENS</u>	<u>ONES</u>
		<u>TENS</u>	<u>ONES</u>
		<u>TENS</u>	<u>ONES</u>
fifty eight		<u>TENS</u>	<u>ONES</u>
forty three		<u>TENS</u>	<u>ONES</u>
Sixty five		<u>TENS</u>	<u>ONES</u>

Mathematician: _____

Number Words










WORD	PICTURE			NUMERALS		
SIXTY ONE						
						
						
1						
					9	3
						
					1	10

Mathematician: _____





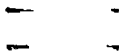


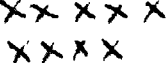
UNIFY COUNTED	PICTURE OF SPLIT BOARD	NAME IN TENS & ONES	
		<u>TENS</u> 2	<u>ONES</u> 7
		<u>TENS</u>	<u>ONES</u>
		<u>TENS</u>	<u>ONES</u>
		<u>TENS</u> 7	<u>ONES</u> 1
Sixty two		<u>TENS</u>	<u>ONES</u>
		<u>TENS</u>	<u>ONES</u>
		<u>TENS</u> 4	<u>ONES</u> 9
ninety nine		<u>TENS</u>	<u>ONES</u>

Mathematician: _____

Number Words

WORD	PICTURE			NUMERALS		
Example:		.	●			●
One hundred six			:::	1	0	6
ninety eight			●			●
One hundred forty one			●			●
Two hundred			●			●

Mathematician: _____

NUMBER NAME	PICTURE		NUMERAL	
			TENS	ONES
nineteen				
				
			2	0
				
twenty three				
			2	1
				

Mathematician: _____

NUMBER NAME

PICTURE

NUMERAL

TENS

ONES

Example:
Seventy



7

0





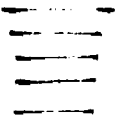





XXXXX
XXXXX







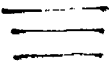
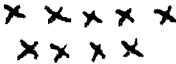
4

8


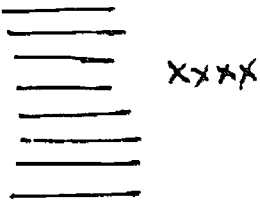
Mathematician: _____

NUMBER NAME	PICTURE		NUMERAL	
			TENS	ONES
Example: Sixty three			6	3
Forty six				
				
			4	8
			9	3
				
Seventeen				





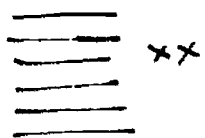
Mathematician: _____

NUMBER NAME	PICTURE		NUMERAL	
			TENS	ONES
				
forty				
				
			8	4
				
thirty seven				
			4	6
				
		107		





MATHEMATICIAN: _____

NAME	PICTURE	NUMERAL		
			TENS	ONES
		<input type="checkbox"/>		
Ninety nine				
			8	3
				
			9	2





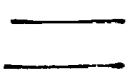

MATHEMATICIAN: _____

NAME	PICTURE	NUMERAL		
			TENS	ONES
				
				
			5	6
Sixty four				
				



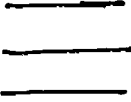
MATHEMATICIAN: _____

NAME	PICTURE	NUMERAL		
			TENS	ONES
				
forty				
		xxxxx		
			4	7
				

MATHEMATICIAN: _____

NAME	PICTURE	NUMERAL		
			TENS	ONES
Example:				
Twelve			1	2
				
			1	8
Twenty two				

MATHEMATICIAN: _____

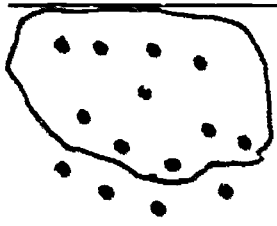
NAME	PICTURE	NUMERAL	
		TENS	ONES
			
Thirty			
		XXXX	
		2	5
		3	4

Mathematician: _____

"I grouped the dots into tens and wrote the number as TENS and ONES."

DOTS

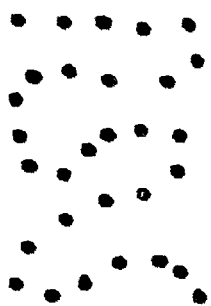
COUNTING WORD



Fourteen

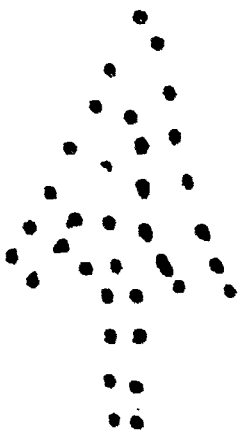
TENS 1

ONES 4



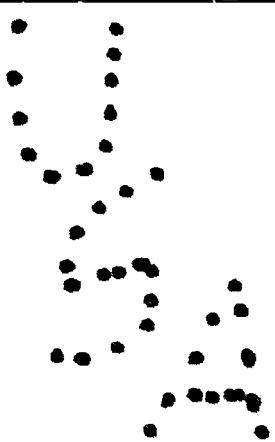
TENS _____

ONES _____



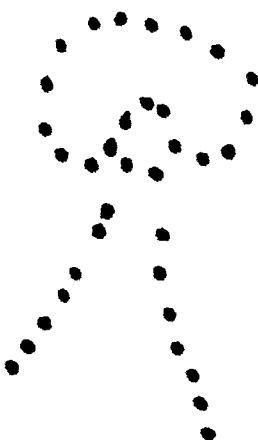
TENS _____

ONES _____



TENS _____

ONES _____

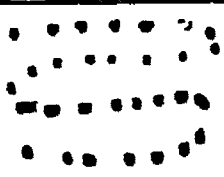
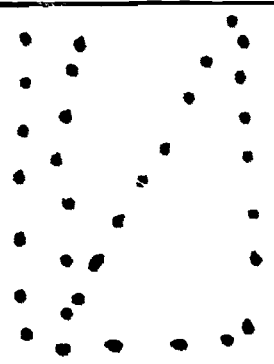
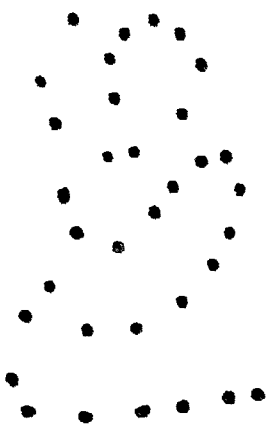
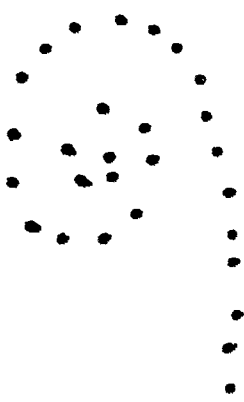
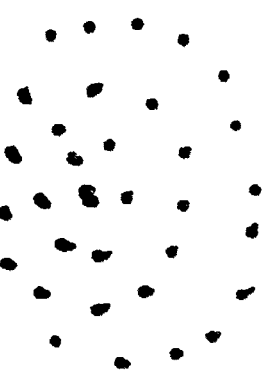


TENS _____

ONES _____

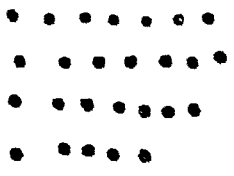
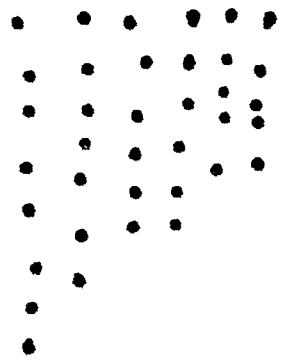
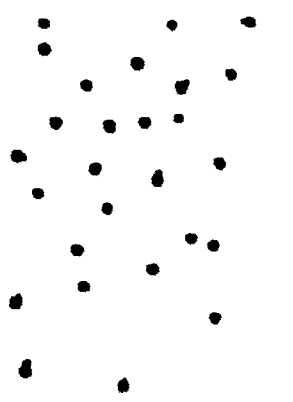
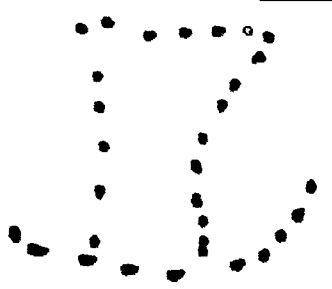
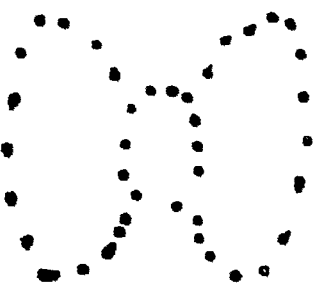
Mathematician: _____

"I grouped the dots into tens and wrote the number as TENS and ONES."

DOTS	COUNTING WORD	
		TENS _____ ONES _____
		TENS _____ ONES _____
		TENS _____ ONES _____
		TENS _____ ONES _____
		TENS _____ ONES _____

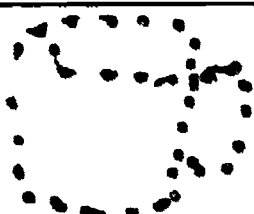
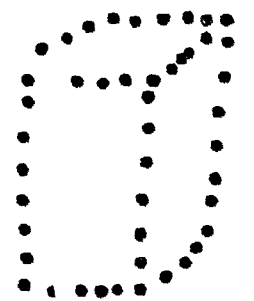
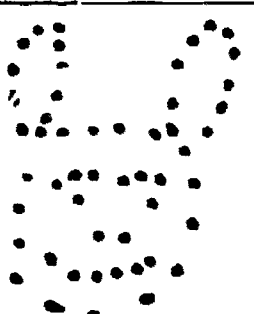
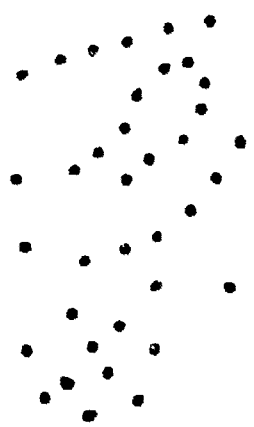
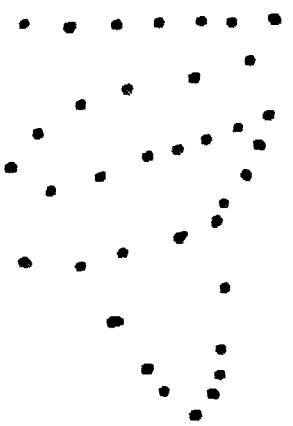
Mathematician: _____

"I grouped the dots into tens and wrote the number as TENS and ONES."

DOTS	COUNTING WORD	
		TENS _____ ONES _____
		TENS _____ ONES _____
		TENS _____ ONES _____
		TENS _____ ONES _____
		TENS _____ ONES _____

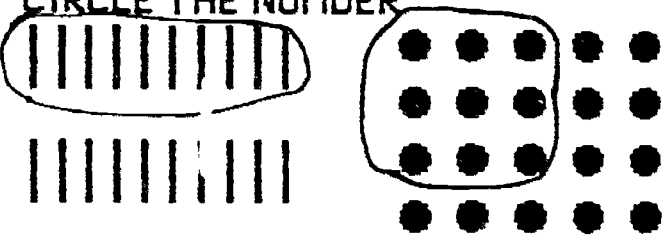
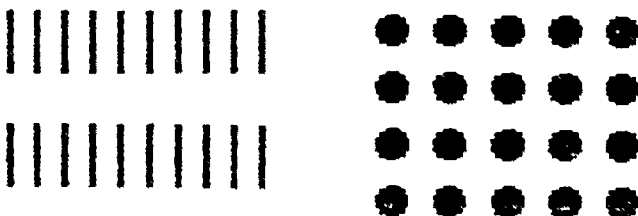
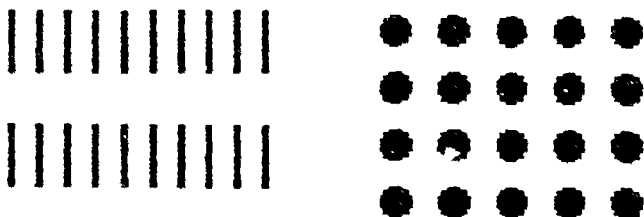
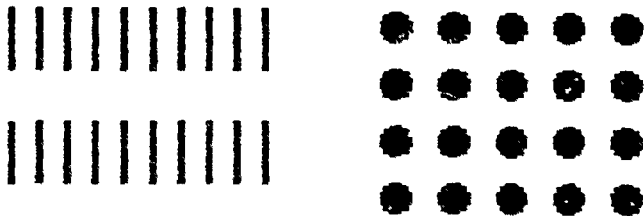
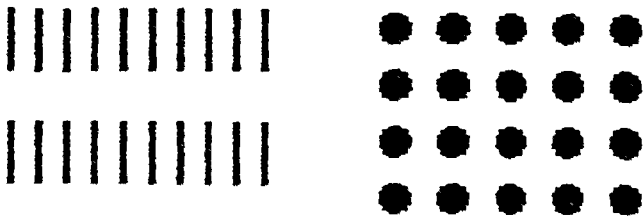
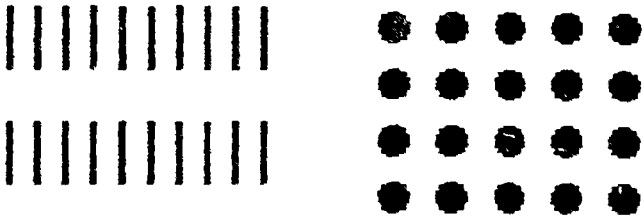
Mathematician: _____

"I grouped the dots into tens and wrote the number as TENS and ONES."

DOTS	COUNTING WORD	
		TENS _____ ONES _____
		TENS _____ ONES _____
		TENS _____ ONES _____
		TENS _____ ONES _____
		TENS _____ ONES _____

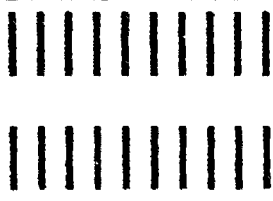
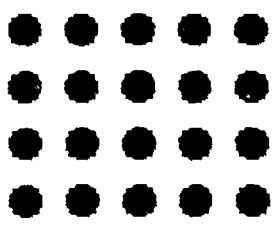
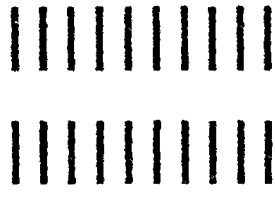
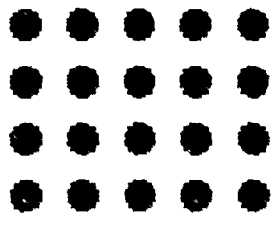
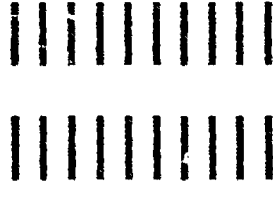
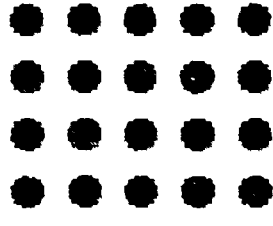
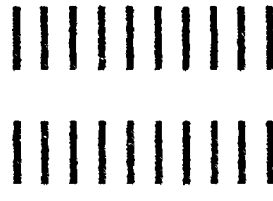
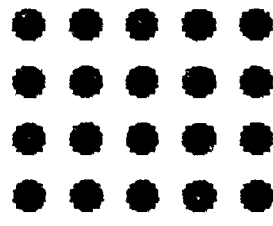

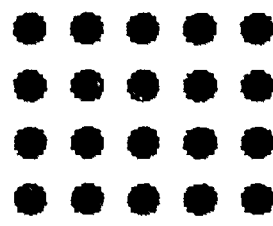

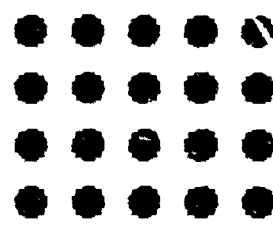
Mathematician: _____

"I showed each number given in THREE different ways."

NUMBER	COUNTING WORD	CIRCLE THE NUMBER	TENS	ONES
19	Nineteen		1	9
19				
19				
23				
23				
23				

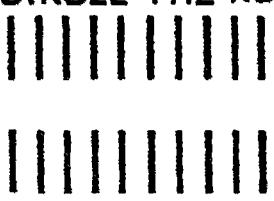
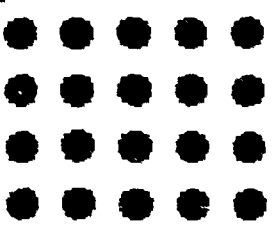
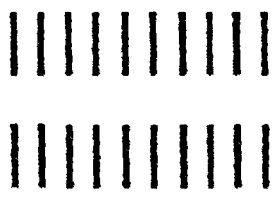
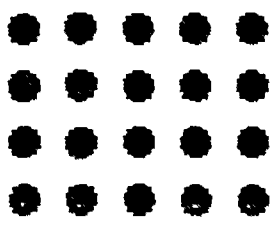
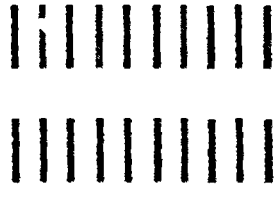
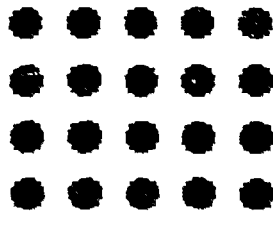

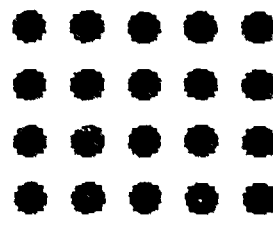
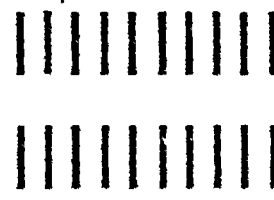
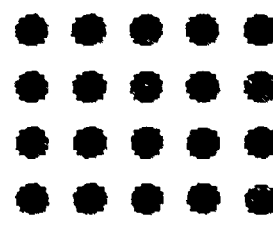
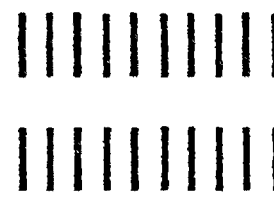
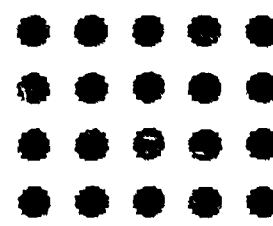
Mathematician: _____

"I showed each number given in THREE different ways."

NUMBER	COUNTING WORD	CIRCLE THE NUMBER	TENS	ONES
25		 		
25		 		
25		 		
33		 		
33		 		
33		 		

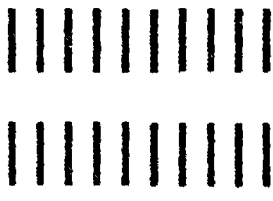
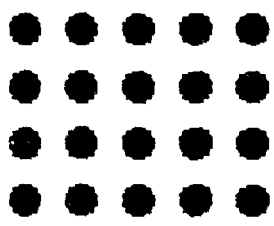
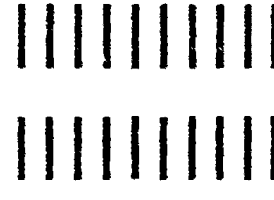
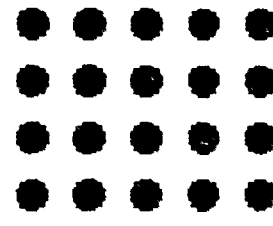

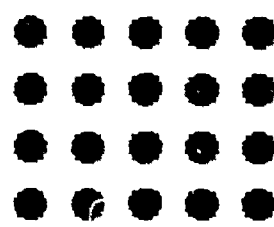

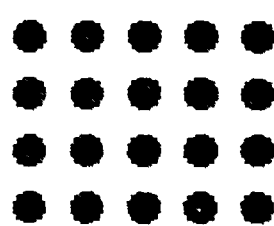
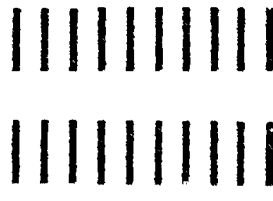
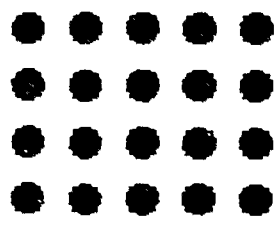
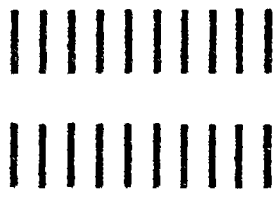
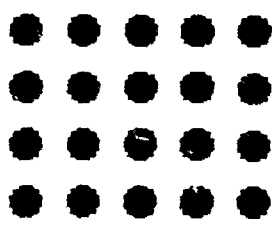
Mathematician: _____

"I showed each number given in THREE different ways."

NUMBER	COUNTING WORD	CIRCLE THE NUMBER	TENS	ONES
31		 		
31		 		
31		 		
14		 		
14		 		
14		 		


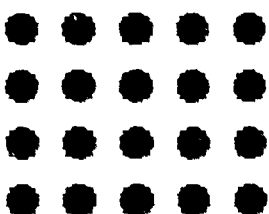
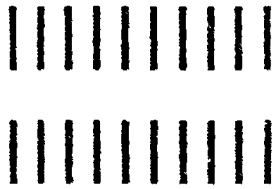
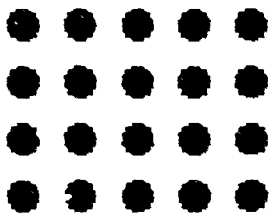
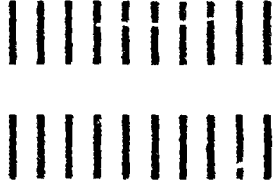
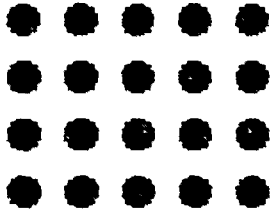

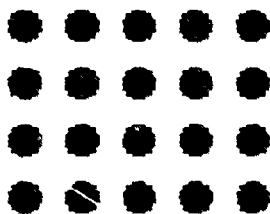
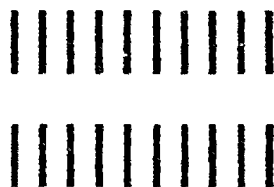
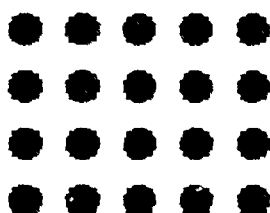
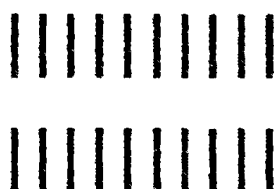
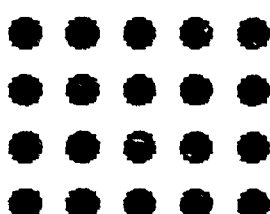
Mathematician: _____

"I showed each number given in THREE different ways."

NUMBER	COUNTING WORD	CIRCLE THE NUMBER	TENS	ONES
		 		
		 		
		 		
		 		
		 		
		 		

Mathematician: _____

"I showed each number given in THREE different ways."

NUMBER	COUNTING WORD	CIRCLE THE NUMBER	TENS	ONES
34		 		
34		 		
34		 		
29		 		
29		 		
29		 		

MATHEMATICIAN: _____

























Names to Numerals and Back Again

























Number Name	Numeral			Numeral			Number Name
Example: forty one		4	1		1	1	0
		3	5		2	0	0
one hundred sixty							two hundred twelve
	1	0	3		1	1	3
eighty nine							sixty
sixty two							forty eight
		2	7		1	0	9
ninety two							thirty six
		3	0				thirteen
	1	0	6		4	0	
one hundred ten						8	
	1	1	3				sixty six
seventy two					8	8	
		6	0				ninety two
ninety six					1	0	1
twenty seven							forty seven

Mathematician: _____ Another Numeral Record

Hundreds	Tens	Ones	Hundreds	Tens	Ones
Hundreds	Tens	Ones	Hundreds	Tens	Ones
Hundreds	Tens	Ones	Hundreds	Tens	Ones
Hundreds	Tens	Ones	Hundreds	Tens	Ones

MATHEMATICIAN: _____ My Work with Numerals































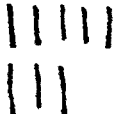




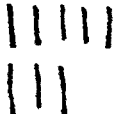




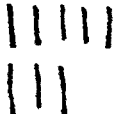

					
					
					
					

Mathematician: _____

My Computer Record 1


































[illegible]

WORKSHEET A

PICTURE	NUMERAL	WORD									
<p>Example:</p> <table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>							<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> </tr> </table>	1	2	3	<p>one hundred twenty three</p>
											
											
1	2	3									
<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>							<table border="1"> <tr> <td></td> <td></td> <td></td> </tr> </table>				<p>sixty seven</p>
											
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MATHEMATICIAN: _____

WORKSHEET A

PICTURE	NUMERAL	WORD									
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	3	8									
<table border="1"> <tr> <td></td><td></td><td></td></tr> <tr> <td></td><td></td><td></td></tr> </table>							<table border="1"> <tr> <td></td><td></td><td></td></tr> </table>				Sixty five
											

















































MATHEMATICIAN: _____

WORKSHEET A

PICTURE	NUMERAL	WORD									
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1	0	6									
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	1	x x									
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1	1	3									














































MATHEMATICIAN: _____

Worksheet B

NUMERAL	PICTURE	WORD						
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63	<table><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>							
								
	<table><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>							Seventy nine
								
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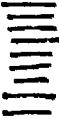




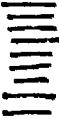




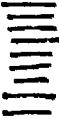

























MATHEMATICIAN: _____

Worksheet B

NUMERAL	PICTURE	WORD						
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MATHEMATICIAN: _____

Worksheet B

NUMERAL	PICTURE	WORD						
113	<table><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>							
								
	<table><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>							
								
								
	<table><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>							
								
								
	<table><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table>							one hundred
								

MATHEMATICIAN: _____

Worksheet C

WORD	PICTURE	NUMERAL						
Example: Sixty	<table border="1"><thead><tr><th>HUNDREDS</th><th>TENS</th><th>ONES</th></tr></thead><tbody><tr><td></td><td>6</td><td>0</td></tr></tbody></table>	HUNDREDS	TENS	ONES		6	0	60
HUNDREDS	TENS	ONES						
	6	0						
	<table border="1"><thead><tr><th>HUNDREDS</th><th>TENS</th><th>ONES</th></tr></thead><tbody><tr><td></td><td>8</td><td>3</td></tr></tbody></table>	HUNDREDS	TENS	ONES		8	3	
HUNDREDS	TENS	ONES						
	8	3						
	<table border="1"><thead><tr><th>HUNDREDS</th><th>TENS</th><th>ONES</th></tr></thead><tbody><tr><td></td><td></td><td></td></tr></tbody></table>	HUNDREDS	TENS	ONES				74
HUNDREDS	TENS	ONES						

MATHEMATICIAN: _____

Worksheet C

WORD	PICTURE	NUMERAL						
ninety	<table border="1"><thead><tr><th>HUNDREDS</th><th>TENS</th><th>ONES</th></tr></thead><tbody><tr><td></td><td></td><td></td></tr></tbody></table>	HUNDREDS	TENS	ONES				
HUNDREDS	TENS	ONES						
	<table border="1"><thead><tr><th>HUNDREDS</th><th>TENS</th><th>ONES</th></tr></thead><tbody><tr><td>1</td><td>1</td><td>2</td></tr></tbody></table>	HUNDREDS	TENS	ONES	1	1	2	
HUNDREDS	TENS	ONES						
1	1	2						
	<table border="1"><thead><tr><th>HUNDREDS</th><th>TENS</th><th>ONES</th></tr></thead><tbody><tr><td></td><td></td><td></td></tr></tbody></table>	HUNDREDS	TENS	ONES				106
HUNDREDS	TENS	ONES						
























MATHEMATICIAN: _____

Worksheet C

WORD	PICTURE	NUMERAL						
Seventy four	<table border="1"><thead><tr><th>HUNDREDS</th><th>TENS</th><th>ONES</th></tr></thead><tbody><tr><td></td><td></td><td></td></tr></tbody></table>	HUNDREDS	TENS	ONES				
HUNDREDS	TENS	ONES						
	<table border="1"><thead><tr><th>HUNDREDS</th><th>TENS</th><th>ONES</th></tr></thead><tbody><tr><td></td><td>6</td><td>1</td></tr></tbody></table>	HUNDREDS	TENS	ONES		6	1	
HUNDREDS	TENS	ONES						
	6	1						
	<table border="1"><thead><tr><th>HUNDREDS</th><th>TENS</th><th>ONES</th></tr></thead><tbody><tr><td></td><td></td><td></td></tr></tbody></table>	HUNDREDS	TENS	ONES				82
HUNDREDS	TENS	ONES						

WORKSHEET D






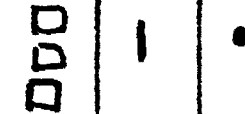
1. Build the number given with base ten blocks
2. Draw the picture, fill in the blanks, or write the numeral as are missing.

PICTURE			NUMBER NAME	NUMERALS		
Example:						
			1 Hundreds 2 Tens 2 Ones	Hundreds	Tens	Ones
				1	2	2
			___ Hundreds ___ Tens ___ Ones	Hundreds	Tens	Ones
						
			___ Hundreds ___ Tens ___ Ones	Hundreds	Tens	Ones
					6	5
			2 Hundreds 3 Tens 4 Ones	Hundreds	Tens	Ones
			___ Hundreds ___ Tens ___ Ones	Hundreds	Tens	Ones
						

MATHEMATICIAN: _____

WORKSHEET D


















1. Build the number given with base ten blocks
2. Draw the picture, fill in the blanks, or write the numeral as are missing.

PICTURE	NUMBER NAME	NUMERALS						
	2 Hundreds 0 Tens 3 Ones	<table border="1"> <tr> <td>Hundreds</td><td>Tens</td><td>Ones</td></tr> <tr> <td></td><td></td><td></td></tr> </table>	Hundreds	Tens	Ones			
Hundreds	Tens	Ones						
	___ Hundreds ___ Tens ___ Ones	<table border="1"> <tr> <td>Hundreds</td><td>Tens</td><td>Ones</td></tr> <tr> <td>1</td><td>1</td><td>0</td></tr> </table>	Hundreds	Tens	Ones	1	1	0
Hundreds	Tens	Ones						
1	1	0						
	___ Hundreds ___ Tens ___ Ones	<table border="1"> <tr> <td>Hundreds</td><td>Tens</td><td>Ones</td></tr> <tr> <td></td><td></td><td></td></tr> </table>	Hundreds	Tens	Ones			
Hundreds	Tens	Ones						
	1 Hundreds 1 Tens 0 Ones	<table border="1"> <tr> <td>Hundreds</td><td>Tens</td><td>Ones</td></tr> <tr> <td></td><td></td><td></td></tr> </table>	Hundreds	Tens	Ones			
Hundreds	Tens	Ones						
	___ Hundreds ___ Tens ___ Ones	<table border="1"> <tr> <td>Hundreds</td><td>Tens</td><td>Ones</td></tr> <tr> <td></td><td></td><td></td></tr> </table>	Hundreds	Tens	Ones			
Hundreds	Tens	Ones						
								

MATHEMATICIAN-_____

WORKSHEET D








1. Build the number given with base ten blocks
2. Draw the picture, fill in the blanks, or write the numeral as are missing.

PICTURE			NUMBER NAME	NUMERALS		
			__ Hundreds __ Tens __ Ones	Hundreds	Tens	Ones
				2	0	1
			<u>0</u> Hundreds <u>4</u> Tens <u>3</u> Ones	Hundreds	Tens	Ones
			<u>1</u> Hundreds <u>0</u> Tens <u>6</u> Ones	Hundreds	Tens	Ones
			__ Hundreds __ Tens __ Ones	Hundreds	Tens	Ones
				2	1	0
			__ Hundreds __ Tens __ Ones	Hundreds	Tens	Ones
						

MATHEMATICIAN: _____

WORKSHEET D

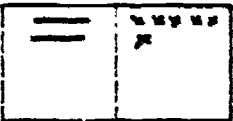
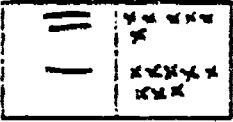
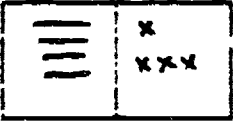
1. Build the number given with base ten blocks
2. Draw the picture, fill in the blanks, or write the numeral as are missing.

PICTURE			NUMBER NAME	NUMERALS		
		●	____ Hundreds ____ Tens ____ Ones	Hundreds	Tens	Ones
		●				
		●	1 ____ Hundreds 1 ____ Tens 1 ____ Ones	Hundreds	Tens	Ones
		●	____ Hundreds ____ Tens ____ Ones	Hundreds	Tens	Ones
				2	1	3
		●	____ Hundreds ____ Tens ____ Ones	Hundreds	Tens	Ones
		●●				
		●	2 ____ Hundreds 0 ____ Tens 4 ____ Ones	Hundreds	Tens	Ones

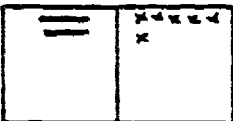
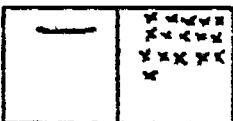
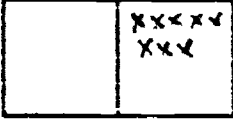
MATHEMATICIAN: _____




What's On My Board




Example:

Tens	Ones	
2	6	Step One 
+ 1	8	Step Two 
		End 

Example:

Tens	Ones	
2	6	Step One 
- 1	8	Step Two 
		End 

Tens	Ones	
		Step One 
		Step Two 
		End 

Tens	Ones	
		Step One 
		Step Two 
		End 

MATHEMATICIAN: _____

What's On My Board

Tens	Ones	Step One		
		<table border="1"><tr><td></td><td></td></tr></table>		
		Step Two		
		<table border="1"><tr><td></td><td></td></tr></table>		
		End		
		<table border="1"><tr><td></td><td></td></tr></table>		

Tens	Ones	Step One		
		<table border="1"><tr><td></td><td></td></tr></table>		
		Step Two		
		<table border="1"><tr><td></td><td></td></tr></table>		
		End		
		<table border="1"><tr><td></td><td></td></tr></table>		

Tens	Ones	Step One		
		<table border="1"><tr><td></td><td></td></tr></table>		
		Step Two		
		<table border="1"><tr><td></td><td></td></tr></table>		
		End		
		<table border="1"><tr><td></td><td></td></tr></table>		

Tens	Ones	Step One		
		<table border="1"><tr><td></td><td></td></tr></table>		
		Step Two		
		<table border="1"><tr><td></td><td></td></tr></table>		
		End		
		<table border="1"><tr><td></td><td></td></tr></table>		

MATHEMATICIAN: _____

What's On My Board

Tens	Ones	Step One
		Step Two
		End

Tens	Ones	Step One
		Step Two
		End

Tens	Ones	Step One
		Step Two
		End

Tens	Ones	Step One
		Step Two
		End

MATHEMATICIAN: _____

What's On My Board

Tens	Ones	Step One
		Step Two
		End

Tens	Ones	Step One
		Step Two
		End

Tens	Ones	Step One
		Step Two
		End

Tens	Ones	Step One
		Step Two
		End





















Mathematician: _____

My Base Ten Work

Numerals	Pictures		Pictures		Numerals
Example! $\begin{array}{r} 23 \\ + 44 \\ \hline 67 \end{array}$	TENS	ONES	TENS	ONES	$\begin{array}{r} 26 \\ + 35 \\ \hline \end{array}$
	==	xxx			
		xxxx			
$\begin{array}{r} 67 \\ \hline \end{array}$		xxxxx xx			
$\begin{array}{r} 35 \\ + 36 \\ \hline \end{array}$	TENS	ONES	TENS	ONES	
			==	xxxx	
			+ —	xxxxx xx	
	TENS	ONES	TENS	ONES	
	==	xxxx	==	xxxx	
	+ ==	xxxxx xx	+ 	xxxxx	
	TENS	ONES	TENS	ONES	$\begin{array}{r} 18 \\ + 15 \\ \hline \end{array}$
	==	xxx			
	+ ==	xxx			

Mathematician: _____

My Base Ten Work

Numerals	Pictures		Pictures		Numerals
Example: $\begin{array}{r} 43 \\ - 23 \\ \hline 20 \end{array}$	TENS	ONES	TENS	ONES	
					
					
	TENS	ONES	TENS	ONES	
					$\begin{array}{r} 30 \\ - 16 \\ \hline \end{array}$
					
	TENS	ONES	TENS	ONES	
$\begin{array}{r} 21 \\ - 19 \\ \hline \end{array}$					
					
	TENS	ONES	TENS	ONES	
					$\begin{array}{r} 47 \\ - 26 \\ \hline \end{array}$
					

Mathematician: _____

TENS	ONES	TENS	ONES
Example: 1. 3 + 2	<div>2</div> <div>1</div>	2 +	<div>4</div> <div>8</div>
5	<div>3</div>		<div></div>
2. 1 +	<div>8</div> <div>7</div>	1 +	<div>9</div> <div>8</div>
	<div></div>		<div></div>
3. 2 + 1	<div>3</div> <div>5</div>	1	<div>8</div> <div>4</div>
	<div></div>		<div></div>

Mathematician: _____

TENS	ONES	TENS	ONES
1. + 1	<div>6</div> <div>9</div>	+ 1 1	<div></div> <div>4</div>
	<div></div>	2	<div>9</div>
2. 2 + 3	<div>1</div> <div>4</div>	1 +	<div>2</div> <div>6</div>
	<div></div>	3	<div>8</div>
3. +	<div>6</div> <div>2</div>	1 + 2	<div>6</div> <div>4</div>
1	<div>8</div>		<div></div>

Mathematician: _____

TENS	ONES	TENS	ONES
1. 2 - 1	<div>6</div> <div>4</div>	3 - 1	<div>1</div> <div>7</div>
	<div></div>		<div></div>
2. 3 - 1	<div>0</div> <div>4</div>	4 - 2	<div>3</div> <div>0</div>
	<div></div>		<div></div>
3. 4 - 2	<div>6</div> <div>3</div>	2 - 1	<div>8</div> <div>4</div>
	<div></div>		<div></div>

Mathematician: _____

TENS	ONES	TENS	ONES
1. 3 - 2	<div></div> <div>4</div>	3 - 2	<div>6</div> <div></div>
	<div>7</div>	1	<div>1</div>
2. 2 -	<div>0</div> <div></div>	2 -	<div>8</div> <div>4</div>
1	<div>2</div>	1	<div>4</div>
3. 2 -	<div>3</div> <div>4</div>	3 - 1	<div>2</div> <div>5</div>
	<div>9</div>		<div></div>

Mathematician: _____

TENS	ONES	TENS	ONES
1. 3 - 1	<div>0</div> <div></div>	2 - 1	<div>4</div> <div></div>
1	<div>5</div>	1	<div>2</div>
2. 2 - 1	<div>9</div> <div>6</div>	3 -	<div>2</div> <div>7</div>
	<div></div>	1	<div>5</div>
3. 3 - 1	<div>2</div> <div>6</div>	3 -	<div>0</div> <div>6</div>
	<div>6</div>	2	<div>4</div>

Mathematician: _____

TENS	ONES	TENS	ONES
1. 2 + 3	<div>6</div> <div></div>	3 +	<div>1</div> <div></div>
	<div>9</div>	6	<div>4</div>
2. 2 +	<div>0</div> <div>7</div>		<div></div> <div></div>
4	<div></div>		<div></div>
3. 2 + 1	<div>3</div> <div></div>		<div></div> <div></div>
3	<div>6</div>		<div></div>







Mathematician: _____

TENS	ONES	TENS	ONES
1. $\begin{array}{r} 4 \\ - 3 \end{array}$	$\begin{array}{c} \boxed{0} \\ \boxed{} \end{array}$	$\begin{array}{r} 4 \\ - 2 \end{array}$	$\begin{array}{c} \boxed{0} \\ \boxed{} \end{array}$
	$\boxed{2}$		$\boxed{2}$
2. $\begin{array}{r} 5 \\ - 2 \end{array}$	$\begin{array}{c} \boxed{} \\ \boxed{7} \end{array}$	$\begin{array}{r} 3 \\ - 1 \end{array}$	$\begin{array}{c} \boxed{} \\ \boxed{2} \end{array}$
$\begin{array}{r} 2 \end{array}$	$\boxed{6}$	$\begin{array}{r} 1 \end{array}$	$\boxed{}$
3. $\begin{array}{r} 3 \\ - \end{array}$	$\begin{array}{c} \boxed{1} \\ \boxed{} \end{array}$	$\begin{array}{r} 4 \\ - \end{array}$	$\begin{array}{c} \boxed{2} \\ \boxed{} \end{array}$
$\begin{array}{r} 1 \end{array}$	$\boxed{7}$	$\begin{array}{r} 1 \end{array}$	$\boxed{8}$

Mathematician: _____

TENS	ONES	TENS	ONES
1.	<div><div></div><div></div></div>		<div><div></div><div></div></div>
	<div><div></div></div>		<div><div></div></div>
2.	<div><div></div><div></div></div>		<div><div></div><div></div></div>
	<div><div></div></div>		<div><div></div></div>
3.	<div><div></div><div></div></div>		<div><div></div><div></div></div>
	<div><div></div></div>		<div><div></div></div>

Mathematician: _____

COMPUTATION	PICTURE			NUMBER SENTENCE
	HUNDREDS	TENS	ONES	
+ _____		 + 	x	+ _____ = _____
+ _____				28 + 33 = _____
86 + 34 _____				= _____ + _____
+ _____	 	—	xxx xxxxx	= _____ + _____
48 + 63 _____				+ _____ = _____
+ _____		 + 	x xxxxx	= _____ + _____
+ _____				102 = 65 + _____

MATHEMATICIAN: _____

BEANS DIVISION RECORD 2

Beans Used ÷ Cups = Beans needed Remainder Number Sentence
in each cup

13		3	1	
15	2			
16	3			
16	5		1	
10	3		1	
9	2			
8	3			
7	2			
9		3		
10		4		
12		2		
15		4		

MATHEMATICIAN: _____

BEANS DIVISION RECORD 2

Beans Used ÷ Cups = Beans needed Remainder Number Sentence
in each cup

21		7		
22		5		
23		4		
24	5			
26	3			
25	3			
27		2		
27		7		
16		3		
12		5		
13		5		
10	2			

MATHEMATICIAN: _____

BEANS DIVISION RECORD 2

Beans Used ÷ Cups = Beans needed Remainder Number Sentence
in each cup

				$10 \div 4 = 2 R 2$
			1	$9 \div 4 =$
				$6 \div \square = 2 R 0$
				$\square \div 2 = 5 R 1$
				$7 \div 2 = \square R 1$
				$7 \div 3 =$
				$2 R 1 = 9 \div \square$
				$3 R 0 = 9 \div \square$
				$3 = 12 \div \square$
				$4 = \square \div 4$
				$9 = \square \div 3$
				$13 \div 3 = 4 R \square$

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Rows =	Columns	Remainder	Number Sentence
Example: 2	1	2	0	$2 \div 1 = 2$
2	2	1	0	$2 \div 2 = 1$
3	1			
3	2	1	1	$3 \div 2 = 1 R 1$
3	3			
4	1			
4	2			
4	3			
4	4			
5	1			
5	2			
5	3			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used \div	Rows	Columns	Remainder	Number Sentence
5	4			
5	5			
6	1			
6	2			
6	3			
6	4			
6	5			
6	6			
7	1			
7	2			
7	3			
7	4			

MATHEMATICIAN _____

TILE DIVISION RECORD

Tiles Used ÷	Rows =	Columns	Remainder	Number Sentence
7	5			
7	6			
7	7			
8	1			
8	2			
8	3			
8	4			
8	5			
8	6			
8	7			
8	8			
9	1			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used \div	Rows =	Columns	Remainder	Number Sentence
9	2			
9	3			
9	4			
9	5			
9	6			
9	7			
9	8			
9	9			
9	10			
10	1			
10	2			
10	3			

MATHEMATICIAN _____

TILE DIVISION RECORD

Tiles Used ÷	Rows =	Columns	Remainder	Number Sentence
10	4			
10	5			
10	6			
10	7			
10	8			
10	9			
10	10			
11	1			
11	2			
11	3			
11	4			
11	5			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Rows =	Columns	Remainder	Number Sentence
11	6			
11	7			
11	8			
11	9			
11	10			
12	1			
12	2			
12	3			
12	4			
12	5			
12	6			
12	7			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Rows =	Columns	Remainder	Number Sentence
12	8			
12	9			
12	10			
13	1			
13	2			
13	3			
13	4			
13	5			
13	6			
13	7			
13	8			
13	9			

MATHEMATICIAN _____

TILE DIVISION RECORD

Tiles Used ÷	Rows =	Columns	Remainder	Number Sentence
13	10			
14	1			
14	2			
14	3			
14	4			
14	5			
14	6			
14	7			
14	8			
14	9			
14	10			
15	1			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Rows =	Columns	Remainder	Number Sentence
15	2			
15	3			
15	4			
15	5			
15	6			
15	7			
15	8			
15	9			
15	10			
16	1			
16	2			
16	3			

MATHEMATICIAN _____

TILE DIVISION RECORD

Tiles Used ÷	Rows =	Columns	Remainder	Number Sentence
16	4			
16	5			
16	6			
16	7			
16	8			
16	9			
16	10			
17	1			
17	2			
17	3			
17	4			
17	5			

MATHEMATICIAN _____

TILE DIVISION RECORD

Tiles Used ÷	Rows	Columns	Remainder	Number Sentence
17	6			
17	7			
17	8			
17	9			
17	10			
18	1			
18	2			
18	3			
18	4			
18	5			
18	6			
18	7			

MATHEMATICIAN_____

TILE DIVISION RECORD

Tiles Used ÷	Rows	Columns	Remainder	Number Sentence
18	8			
18	9			
18	10			
19	1			
19	2			
19	3			
19	4			
19	5			
19	6			
19	7			
19	8			
19	9			

MATHEMATICIAN_____

TILE DIVISION RECORD

Tiles Used ÷	Rows	Columns	Remainder	Number Sentence
19	10			
20	1			
20	2			
20	3			
20	4			
20	5			
20	6			
20	7			
20	8			
20	9			
20	10			
21	1			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Rows	Columns	Remainder	Number Sentence
21	2			
21	3			
21	4			
21	5			
21	6			
21	7			
21	8			
21	9			
21	10			
22	1			
22	2			
22	3			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Rows	Columns	Remainder	Number Sentence
22	4			
22	5			
22	6			
22	7			
22	8			
22	9			
22	10			
23	1			
23	2			
23	3			
23	4			
23	5			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Rows	Columns	Remainder	Number Sentence
23	6			
23	7			
23	8			
23	9			
23	10			
24	1			
24	2			
24	3			
24	4			
24	5			
24	6			
24	7			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Rows	Columns	Remainder	Number Sentence
24	8			
24	9			
24	10			
25	1			
25	2			
25	3			
25	4			
25	5			
25	6			
25	7			
25	8			
25	9			

MATHEMATICIAN

TILE DIVISION RECORD

<u>Tiles Used</u> ÷	<u>Rows</u>	<u>Columns</u>	<u>Remainder</u>	<u>Number Sentence</u>
25	10			
26	1			
26	2			
26	3			
26	4			
26	5			
26	6			
26	7			
26	8			
26	9			
26	10			
27	1			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Rows	Columns	Remainder	Number Sentence
27	2			
27	3			
27	4			
27	5			
27	6			
27	7			
27	8			
27	9			
27	10			
28	1			
28	2			
28	3			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Rows	Columns	Remainder	Number Sentence
28	4			
28	5			
28	6			
28	7			
28	8			
28	9			
28	10			
29	1			
29	2			
29	3			
29	4			
29	5			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Rows	Columns	Remainder	Number Sentence
29	6			
29	7			
29	8			
29	9			
29	10			
30	1			
30	2			
30	3			
30	4			
30	5			
30	6			
30	7			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Rows	Columns	Remainder	Number Sentence
30	8			
30	9			
30	10			
40	10			
50	10			
60	10			
70	10			
80	10			
90	10			
100	10			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used	Columns	Rows	Remainder	Number Sentence
Example: 2	1	2	0	$2 \times 1 = 2$
2	2			
3	1			
3	2			
3	3			
4	1			
4	2			
4	3			
4	4			
5	1			
5	2			
5	3			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Columns	Rows	Remainder	Number Sentence
5	4			
5	5			
6	1			
6	2			
6	3			
6	4			
6	5			
6	6			
7	1			
7	2			
7	3			
7	4			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Columns	Rows	Remainder	Number Sentence
7	5			
7	6			
7	7			
8	1			
8	2			
8	3			
8	4			
8	5			
8	6			
8	7			
8	8			
9	1			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Columns	Rows	Remainder	Number Sentence
9	2			
9	3			
9	4			
9	5			
9	6			
9	7			
9	8			
9	9			
10	1			
10	2			
10	3			
10	4			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Columns	Rows	Remainder	Number Sentence
10	5			
10	6			
10	7			
10	8			
10	9			
10	10			
11	1			
11	2			
11	3			
11	4			
11	5			
11	6			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Columns	Rows	Remoinder	Number Sentence
11	7			
11	8			
11	9			
11	10			
12	1			
12	2			
12	3			
12	4			
12	5			
12	6			
12	7			
12	8			

MATHEMATICIAN _____

TILE DIVISION RECORD

Tiles Used \div	Columns	Rows	Remainder	Number Sentence
12	9			
12	10			
13	1			
13	2			
13	3			
13	4			
13	5			
13	6			
13	7			
13	8			
13	9			
13	10			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Columns	Rows	Remainder	Number Sentence
14	1			
14	2			
14	3			
14	4			
14	5			
14	6			
14	7			
14	8			
14	9			
14	10			
15	1			
15	2			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used \div	Columns	Rows	Remainder	Number Sentence
15	3			
15	4			
15	5			
15	6			
15	7			
15	8			
15	9			
15	10			
16	1			
16	2			
16	3			
16	4			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Columns	Rows	Remainder	Number Sentence
16	5			
16	6			
16	7			
16	8			
16	9			
16	10			
17	1			
17	2			
17	3			
17	4			
17	5			
17	6			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Columns	Rows	Remainder	Number Sentence
17	7			
17	8			
17	9			
17	10			
18	1			
18	2			
18	3			
18	4			
18	5			
18	6			
18	7			
18	8			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Columns	Rows	Remainder	Number Sentence
18	9			
18	10			
19	1			
19	2			
19	3			
19	4			
19	5			
19	6			
19	7			
19	8			
19	9			
19	10			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Columns	Rows	Remainder	Number Sentence
20	1			
20	2			
20	3			
20	4			
20	5			
20	6			
20	7			
20	8			
20	9			
20	10			
21	1			
21	2			

MATHEMATICIAN _____

TILE DIVISION RECORD

Tiles Used ÷	Columns	Rows	Remainder	Number Sentence
21	3			
21	4			
21	5			
21	6			
21	7			
21	8			
21	9			
21	10			
22	1			
22	2			
22	3			
22	4			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Columns	Rows	Remainder	Number Sentence
22	5			
22	6			
22	7			
22	8			
22	9			
22	10			
23	1			
23	2			
23	3			
23	4			
23	5			
23	6			

MATHEMATICIAN _____

TILE DIVISION RECORD

Tiles Used ÷	Columns	Rows	Remainder	Number Sentence
23	7			
23	8			
23	9			
23	10			
24	1			
24	2			
24	3			
24	4			
24	5			
24	6			
24	7			
24	8			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Columns	Rows	Remainder	Number Sentence
24	9			
24	10			
25	1			
25	2			
25	3			
25	4			
25	5			
25	6			
25	7			
25	8			
25	9			
25	10			

MATHEMATICIAN_____

TILE DIVISION RECORD

Tiles Used ÷	Columns	Rows	Remainder	Number Sentence
26	1			
26	2			
26	3			
26	4			
26	5			
26	6			
26	7			
26	8			
26	9			
26	10			
27	1			
27	2			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Columns	Rows	Remainder	Number Sentence
27	3			
27	4			
27	5			
27	6			
27	7			
27	8			
27	9			
27	10			
28	1			
28	2			
28	3			
28	4			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Columns	Rows	Remainder	Number Sentence
28	5			
28	6			
28	7			
28	8			
28	9			
28	10			
29	1			
29	2			
29	3			
29	4			
29	5			
29	6			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Columns	Rows	Remainder	Number Sentence
29	7			
29	8			
29	9			
29	10			
30	1			
30	2			
30	3			
30	4			
30	5			
30	6			
30	7			
30	8			

MATHEMATICIAN _____

TILE DIVISION RECORD

Tiles Used ÷	Columns	Rows	Remainder	Number Sentence
30	9			
30	10			
40	10			
50	10			
60	10			
70	10			
80	10			
90	10			
100	10			

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Rows	Columns	Remainder	Number Sentence
30	3			
30	4			
30	5			
30	6			
30	7			
30	8			
30	9			
30	10			
30	11			
30		2	6	
30			4	
30		2	2	

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used \div	Rows =	Columns	Remainder	Number Sentence
				$\square \div 3 R 1$
16	3			
16		4		
16		3	1	
16				$16 \div 6 =$
16	7			
	8	2		
16		1	7	
11	2			
11	3			
11		2	R 3	
				$11 \div 5 = 2 R 1$

MATHEMATICIAN: _____

TILE DIVISION RECORD

Tiles Used ÷	Rows	Columns	Remainder	Number Sentence
				$12 \div 3 = 4$
				$12 \div 4 =$
				$12 \div 5 = R2$
				$12 \div 6 =$
				$12 \div 7 =$
				$\square \div 3 = 4 R1$
				$\square \div 5 = 2 R2$
				$14 \div 3 =$
				$\square \div 4 = 2 R1$
				$\square \div 5 = 2 R4$
				$\square \div 6 = 1 R3$
				$14 \div \square = 3 R2$

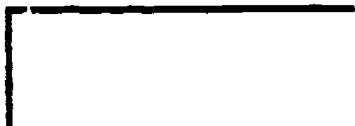



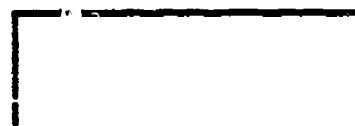
MATHEMATICIAN: _____

A TILE DIVISION RECORD

Tiles Used	Rows	Columns (tiles in each row)	Record
Example: 6	2	3	<div> <div></div> <div>(This is a Division "box")</div> </div>
Example: 6	2	3	<div> <div>3</div> <div>2 6</div> </div>
6	3		<div> <div></div> <div></div> </div>
8		4	<div> <div></div> <div></div> </div>
			<div> <div>3 9</div> </div>

MATHEMATICIAN: _____

A TILE DIVISION RECORD

Tiles Used	Rows	Columns (tiles in each row)	Record
10	2		
10	5		
12	3		
12	4		
12	6		






MATHEMATICIAN: _____

A TILE DIVISION RECORD

Tiles Used	Rows	Columns (tiles in each row)	Record
12	4		$\sqrt{\quad}$
8		2	$\sqrt{\quad}$
10	5		$5 \overline{) 10}$
6	3		$3 \overline{) 6}$
8		2	$\begin{array}{r} 2 \\ \sqrt{8} \end{array}$


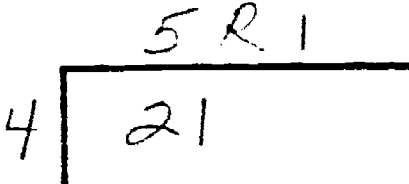


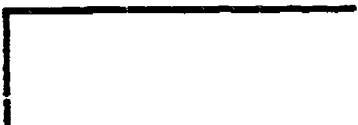
MATHEMATICIAN: _____

A TILE DIVISION RECORD

Tiles Used	Rows	Columns (tiles in each row)	Record
21	8		
21	9		
21	10		
21	11		
21	12		






MATHEMATICIAN: _____

A TILE DIVISION RECORD

Tiles Used	Rows	Columns (tiles in each row)	Record
21	3		
21	4	5	
21	5		
21	6		
21	7		






MATHEMATICIAN: _____

A TILE DIVISION RECORD

Tiles Used	Rows	Columns (tiles in each row)	Record
12			4 
	3	4	
	2	5	
10		5	
12			3 

MATHEMATICIAN: _____

A TILE DIVISION RECORD

Tiles Used	Rows	Columns (tiles in each row)	Record
21	3		
35	5		
42		6	
24			4 
22			2 

MATHEMATICIAN: _____

A TILE DIVISION RECORD

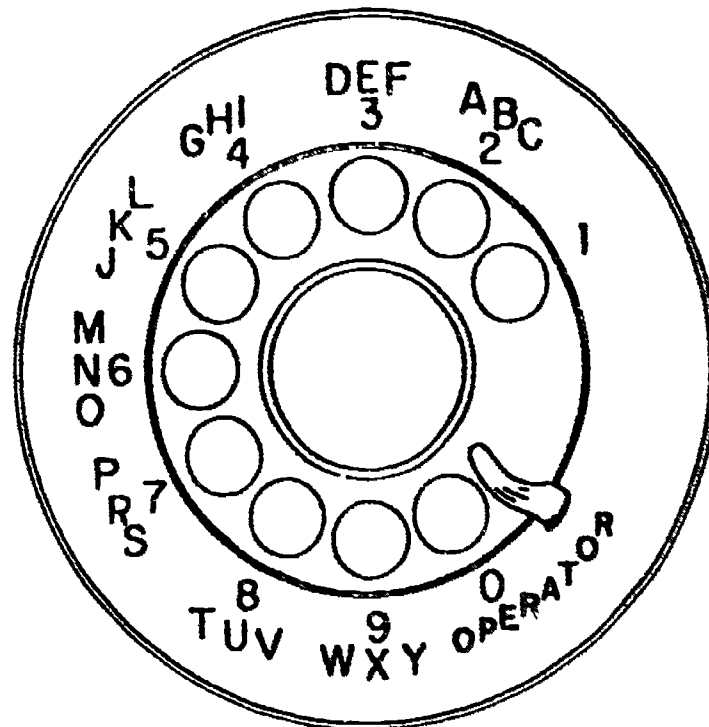
Tiles Used	Rows	Columns (tiles in each row)	Record
<i>Example</i> 12	3	4	$\begin{array}{r} 4 \\ 3 \overline{) 12} \end{array}$
			$\begin{array}{r} 5 \\ 2 \overline{) } \end{array}$
			$\begin{array}{r} 7 \\ 3 \overline{) 21} \end{array}$
			$\begin{array}{r} 4 \\ \overline{) 24} \end{array}$
			$\begin{array}{r} 4 \\ 5 \overline{) 20} \end{array}$

MATHEMATICIAN: _____

TILE DIVISION RECORD

[illegible]

FIND THE VALUES



IF YOU ADD THE VALUE OF EACH LETTER (M=6, A=2, AND SO)
THEN MATH = $6 + 2 + 8 + 4 = 20$

FIND THE VALUE OF:

FUN =	_____
SUN =	_____
LAKE =	_____
SWIM =	_____
HAPPY =	_____

WRITE YOUR FIRST NAME AND FIND ITS VALUE.

_____ = _____

FIND A WORD WORTH 12 ON THE PHONE DIAL.

_____ 213

MATHEMATICIAN: _____

Link Size	Number of Links Used	Cubes in the "long" link
Example: 2	2	4
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
3	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
4	2	
	3	
	4	
	5	

Link Size	Number of Links Used	Cubes in the "long" link
4	6	
	7	
	8	
	9	
	10	
5	2	
	3	
	4	
	5	
	6	
	7	
	8	
6	2	
	3	
	4	
	5	
	6	
	7	
7	2	
	3	
	4	

MATHEMATICIAN: _____

My UNIFIX "Breakups"

Link Size	Equal Links Made
Example: 6	Two 3's and three 2's
7	None
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	



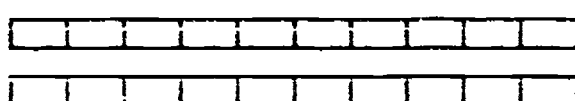
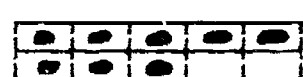


MATHEMATICIAN: _____

My UNIFIX "Breakups"

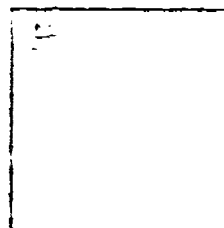
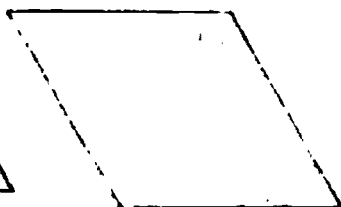
Pg. 2

Link Size	Equal Links Made
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

Mathematician: _____

	<p>How many 2's in TEN? <input data-bbox="1568 286 1656 386" type="text"/></p>
	<p>How many 3's in TWELVE? <input data-bbox="1538 436 1656 535" type="text"/></p> <p>How many 4's in TWELVE? <input data-bbox="1538 573 1656 672" type="text"/></p> <p>How many 6's in TWELVE? <input data-bbox="1538 685 1656 784" type="text"/></p> <p>How many 2's in TWELVE? <input data-bbox="1538 797 1656 897" type="text"/></p>
	<p>How many 10's in 20? <input data-bbox="1538 971 1656 1071" type="text"/></p> <p>How many 5's in 20? <input data-bbox="1538 1084 1656 1183" type="text"/></p> <p>How many 2's in 20? <input data-bbox="1538 1196 1656 1295" type="text"/></p> <p>How many 4's in 20? <input data-bbox="1538 1308 1656 1407" type="text"/></p>
	<p>How many 2's in 8? <input data-bbox="1538 1432 1636 1532" type="text"/></p> <p>How many 4's in 8? <input data-bbox="1538 1545 1636 1644" type="text"/></p> <p>How many 1's in 8? <input data-bbox="1538 1657 1636 1756" type="text"/></p>
	<p>How many 2's in 6? <input data-bbox="1538 1794 1636 1893" type="text"/></p> <p>How many 3's in 6? <input data-bbox="1538 1906 1636 2006" type="text"/></p> <p>How many 6's in 6? <input data-bbox="1538 2018 1636 2118" type="text"/></p>
	<p>How many 2's in 4? <input data-bbox="1538 2130 1636 2230" type="text"/></p> <p>How many 4's in 4? <input data-bbox="1538 2242 1636 2342" type="text"/></p>

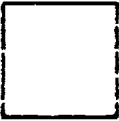




MATHEMATICIAN: _____



SHAPE	KINDS OF ANGLES
Green	
Blue	Two A's and two B's
Orange	
Red	
Yellow	

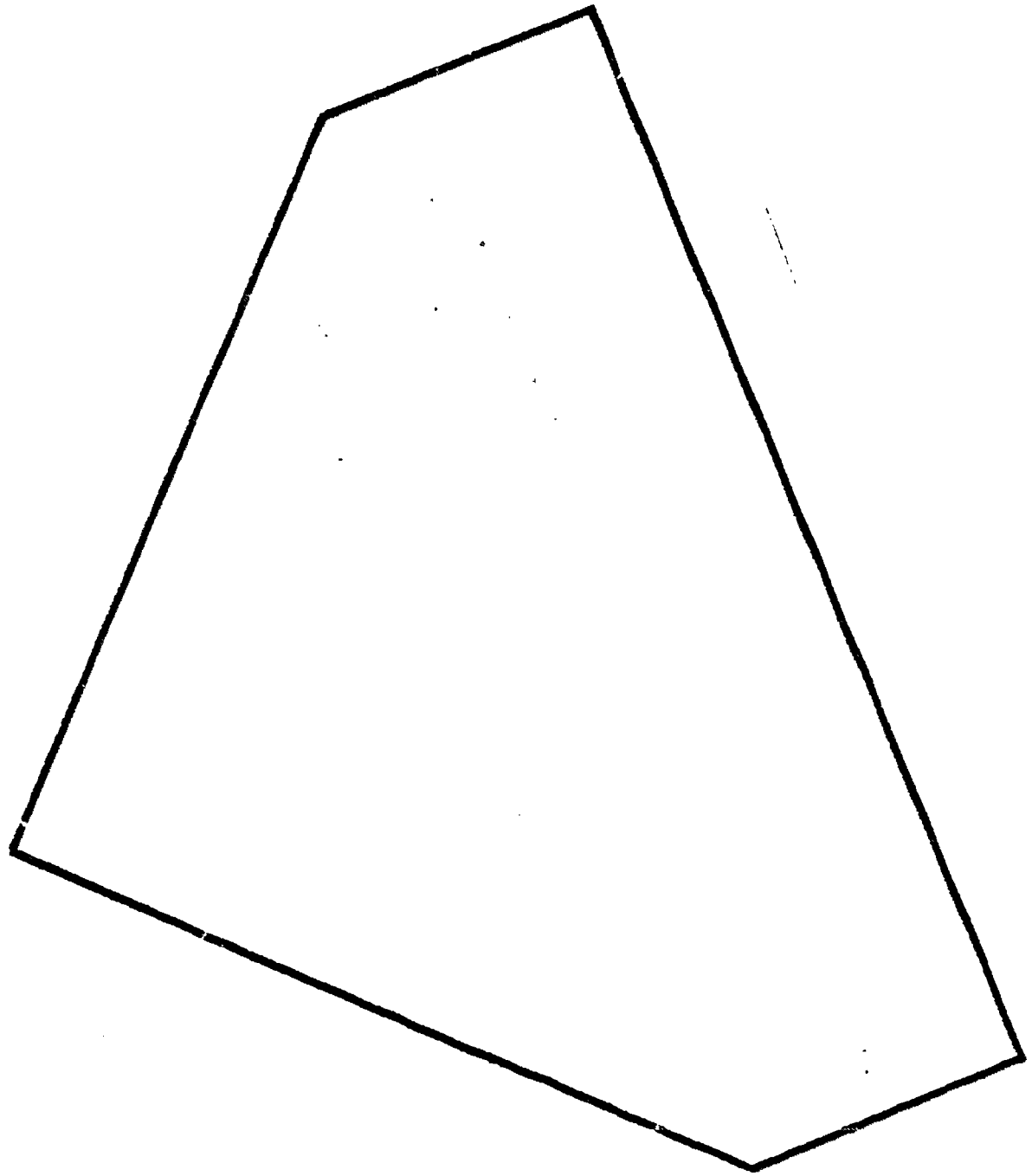
MATHEMATICIAN: _____

My Tangram Shapes

Number of Pieces					
ONE					
TWO					
THREE					
FOUR					
FIVE					
SIX					
SEVEN					
EIGHT					

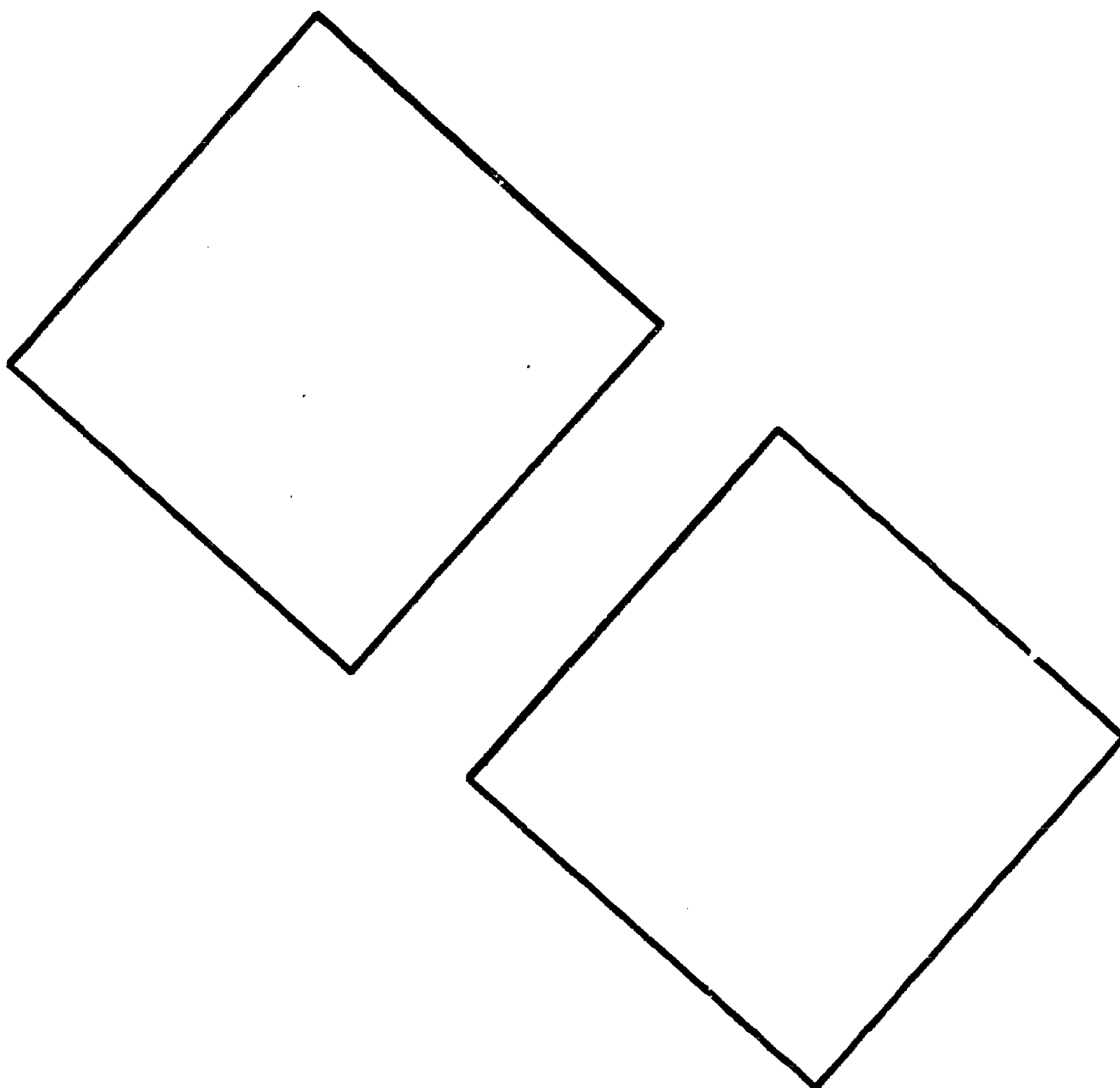
LEVEL TWO

Tangram Challenge



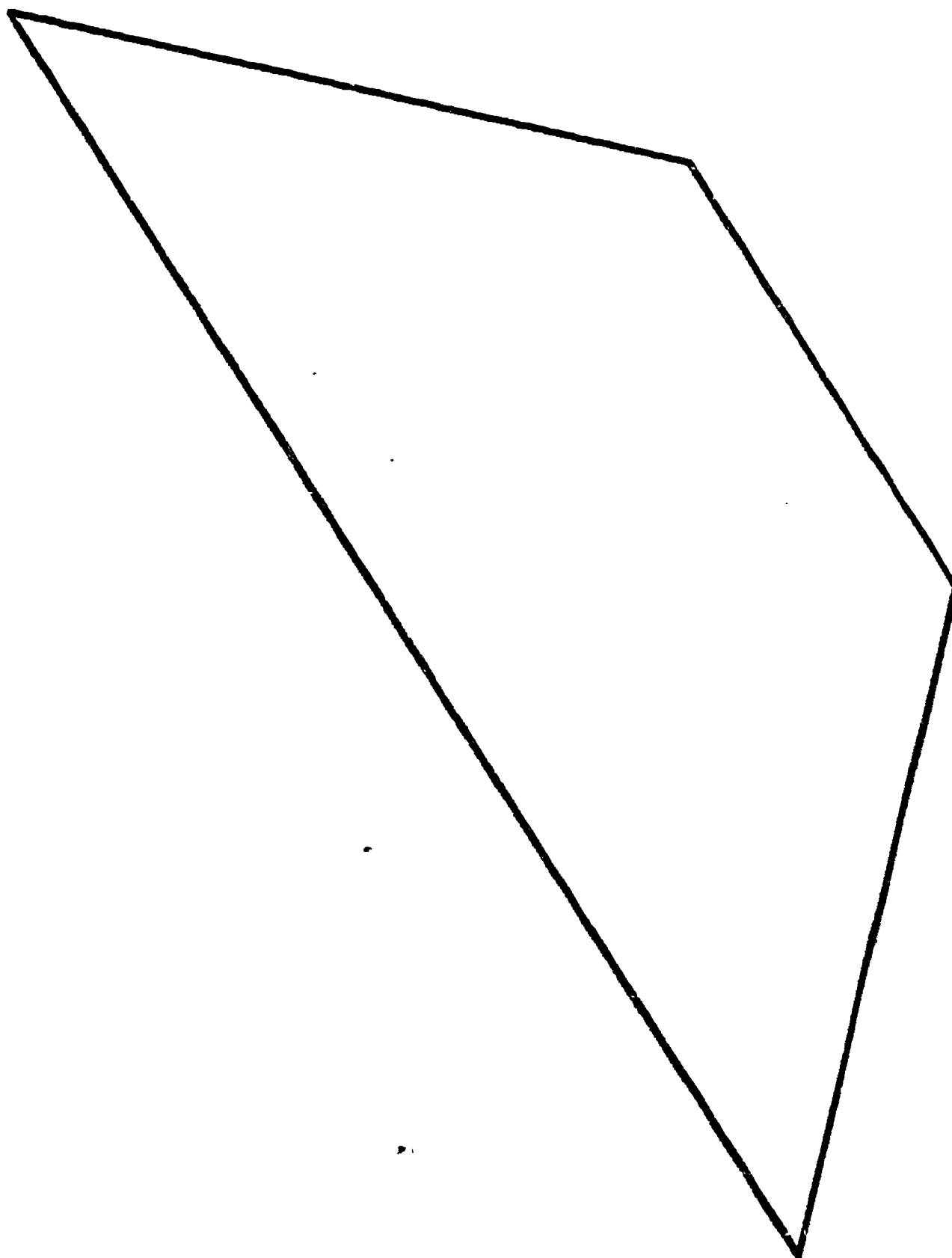
LEVEL TWO

Tangram Challenge



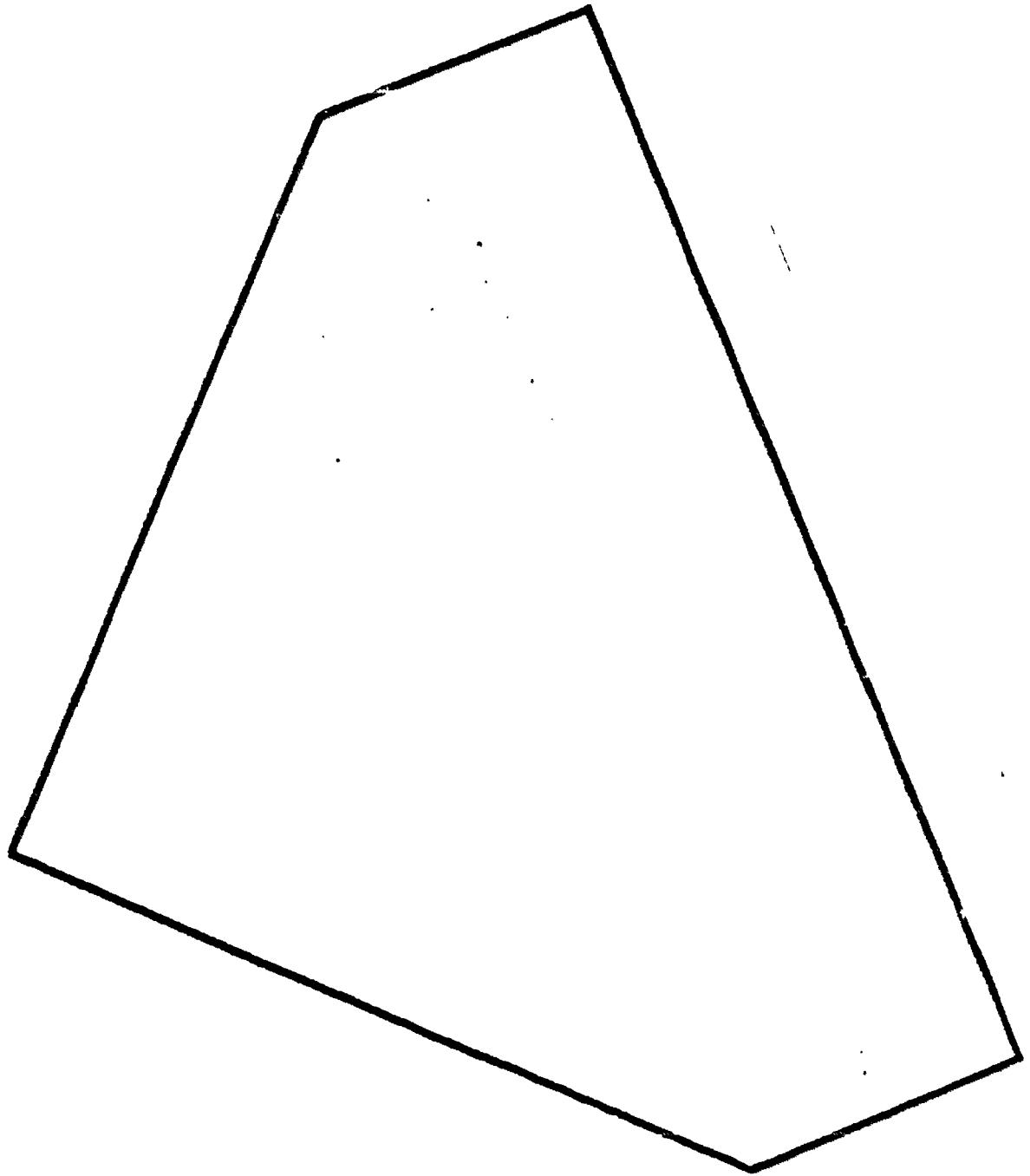
LEVEL TWO

Tangram Challenge



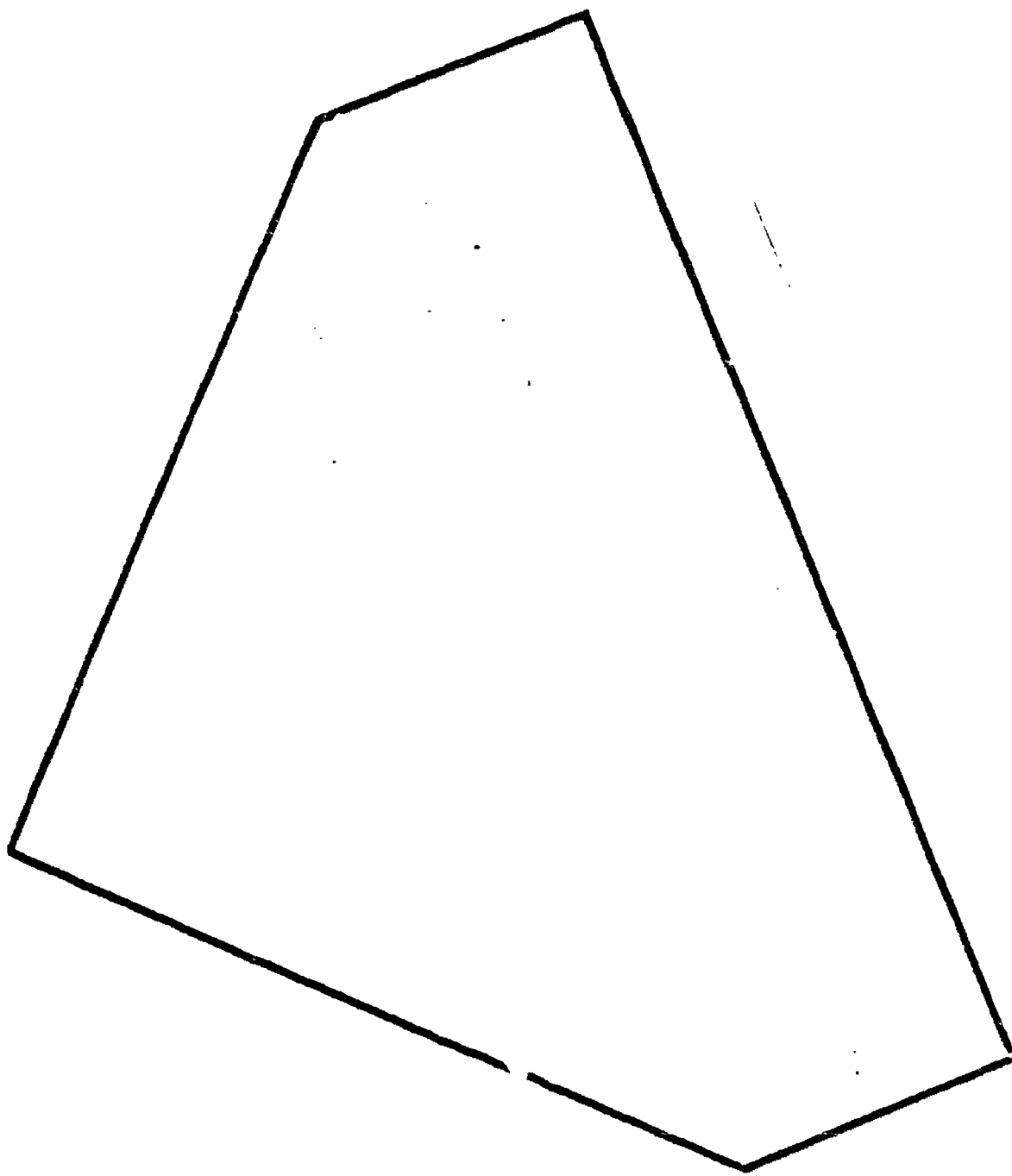
LEVEL TWO

Tangram Challenge



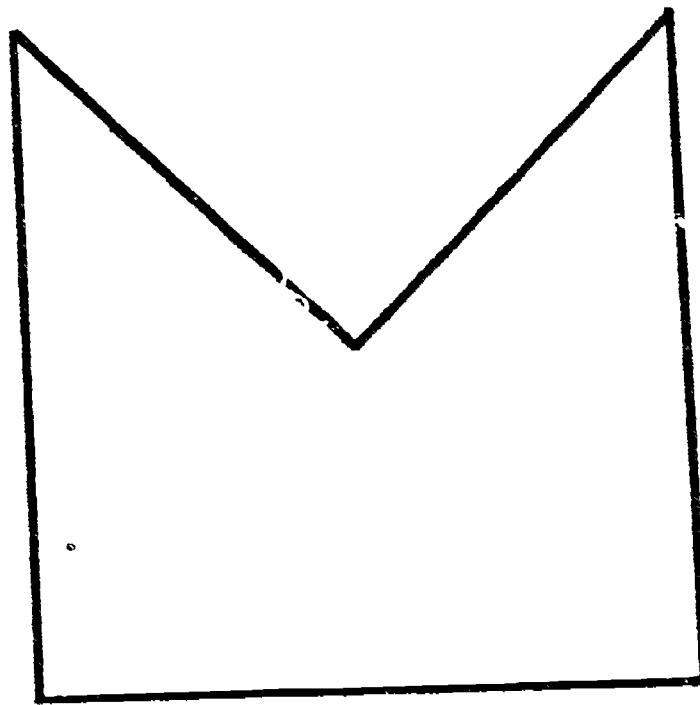
LEVEL TWO

Tangram Challenge



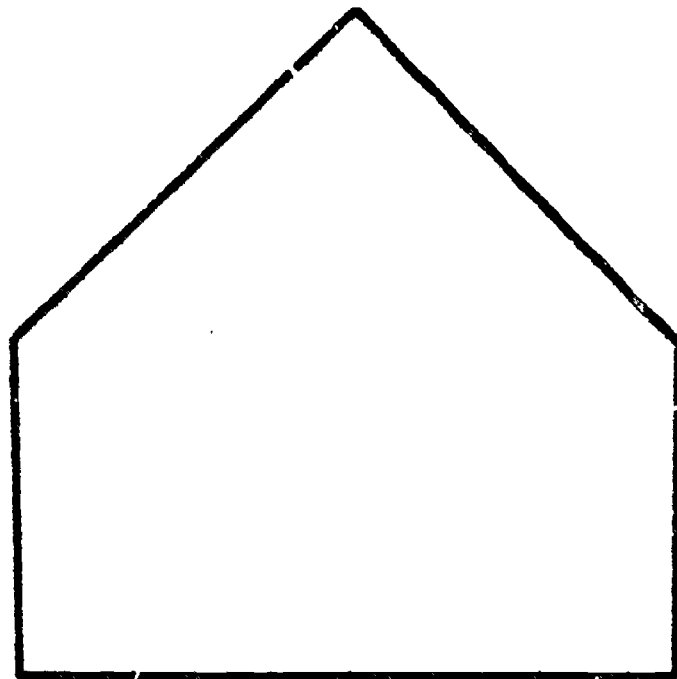
LEVEL TWO

Tangram Challenge #1



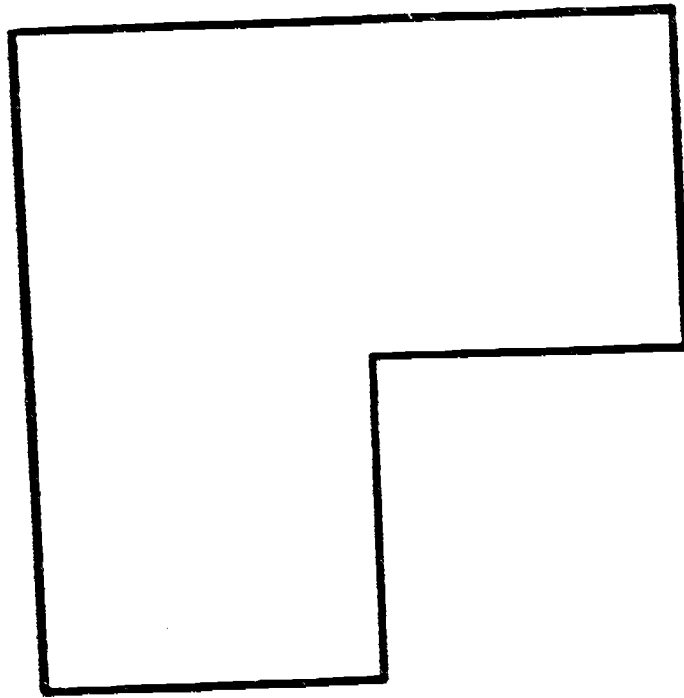
LEVEL TWO

Tangram Challenge #2



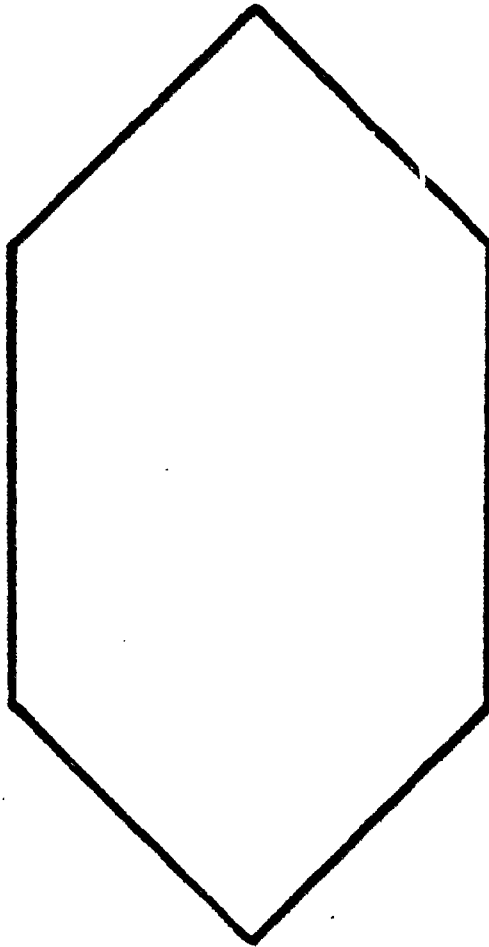
LEVEL TWO

Tangram Challenge #3



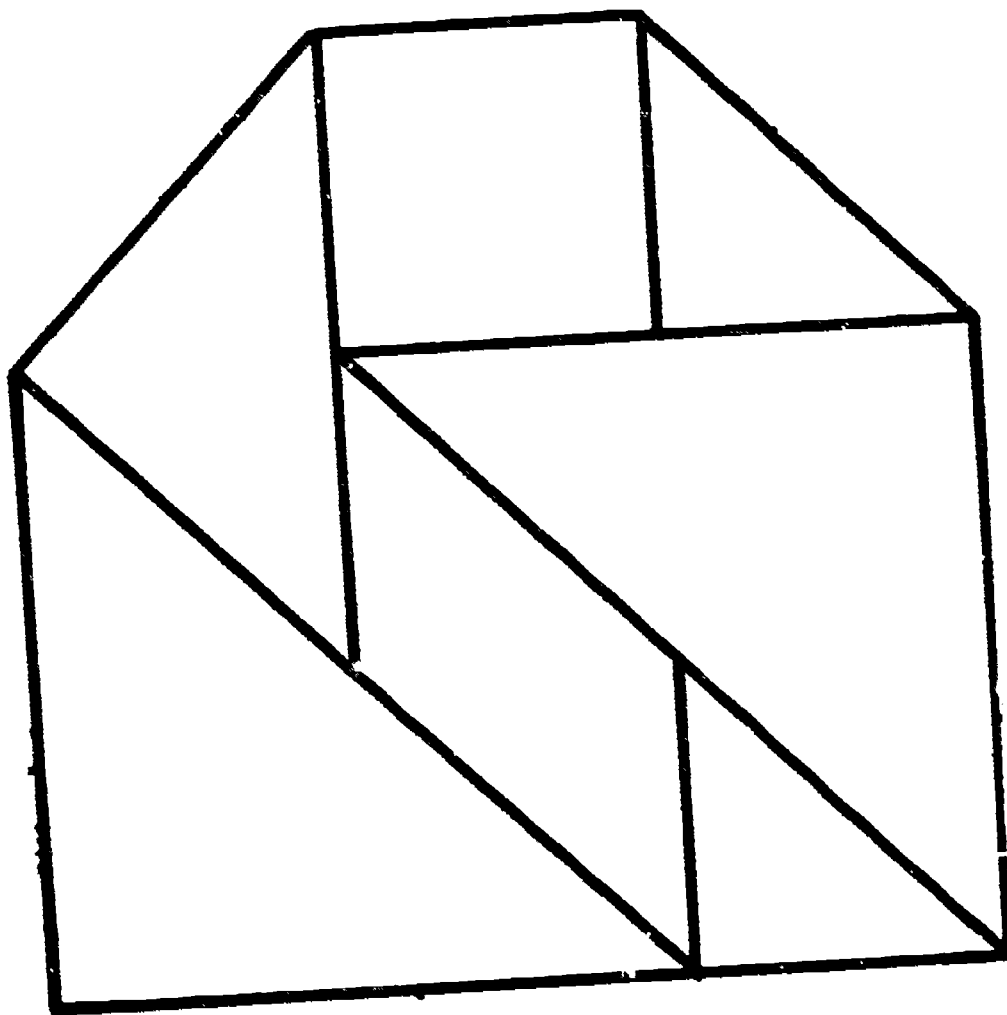
LEVEL TWO

Tangram Challenge #4



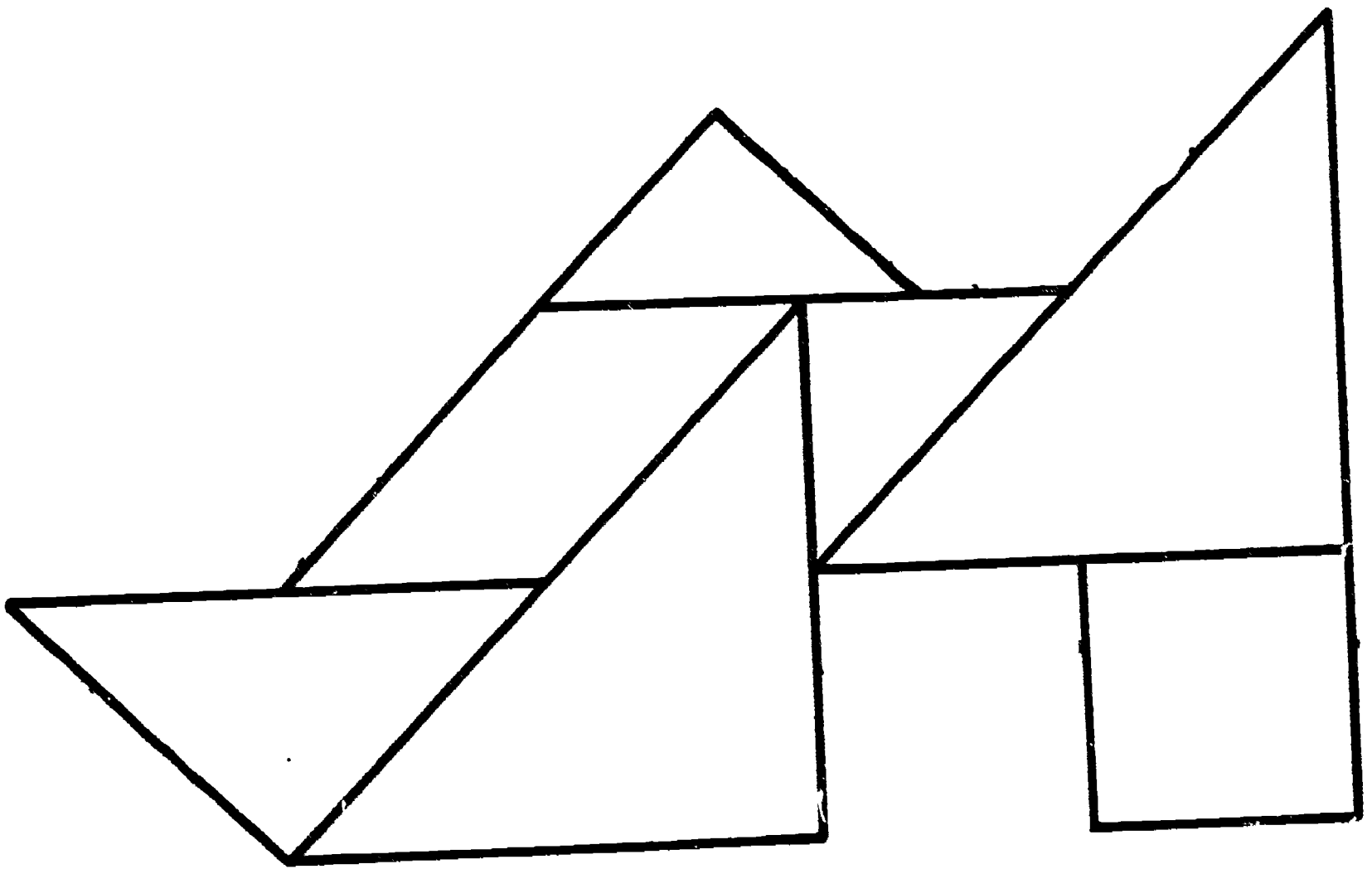
LEVEL TWO

Tangram Challenge #5



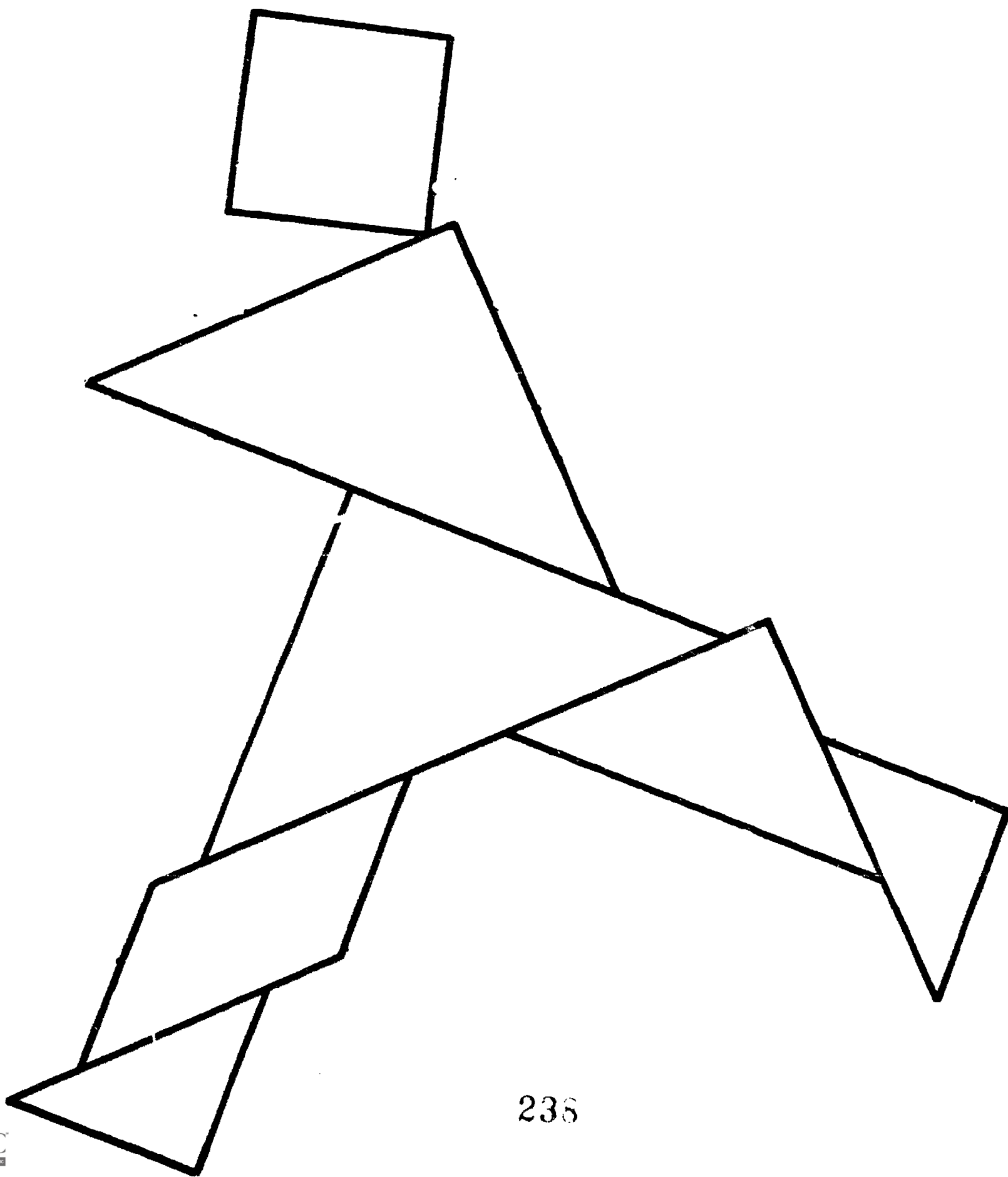
LEVEL TWO

Tangram Challenge #6



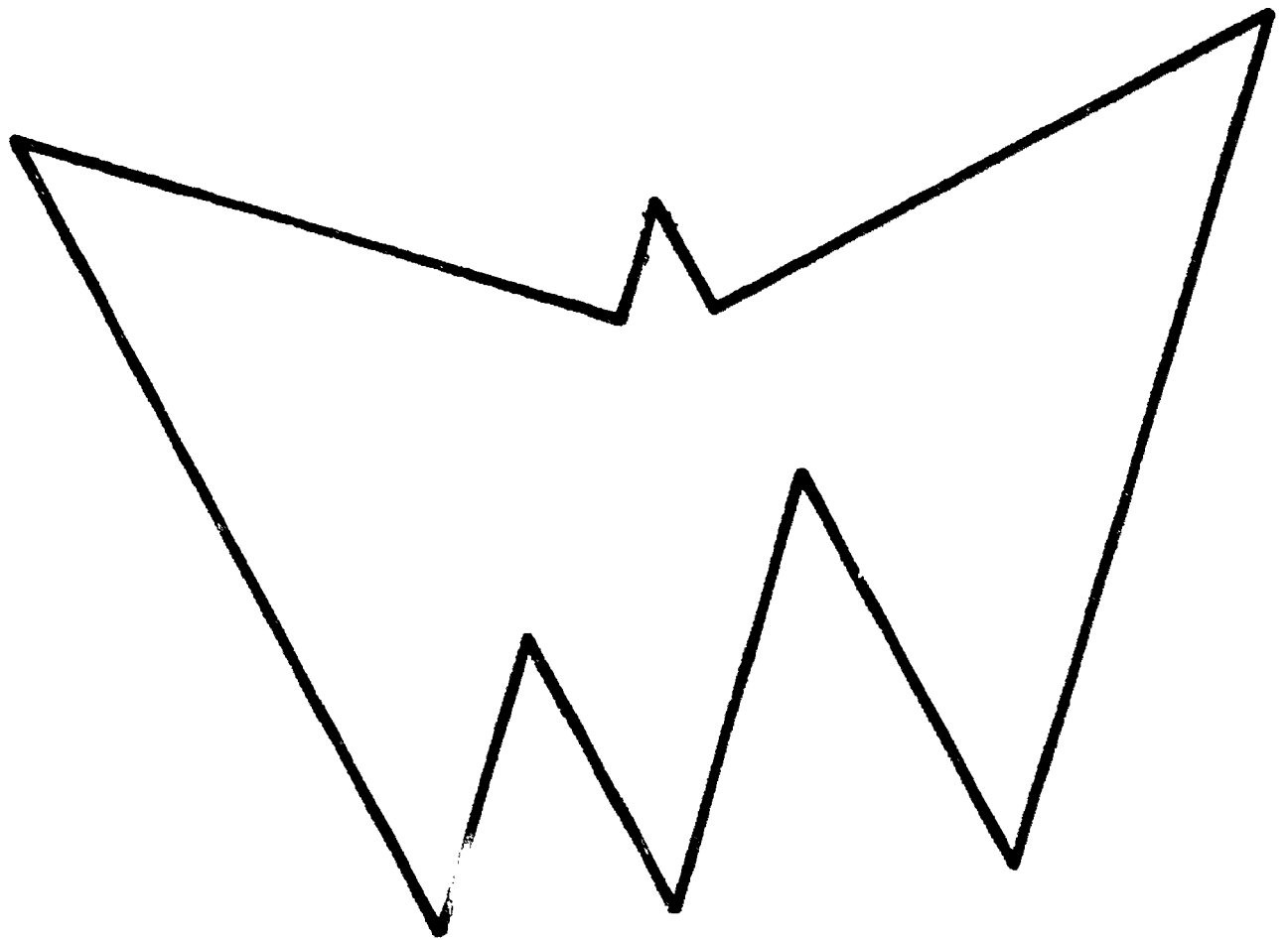
LEVEL TWO

Tangram Challenge #7



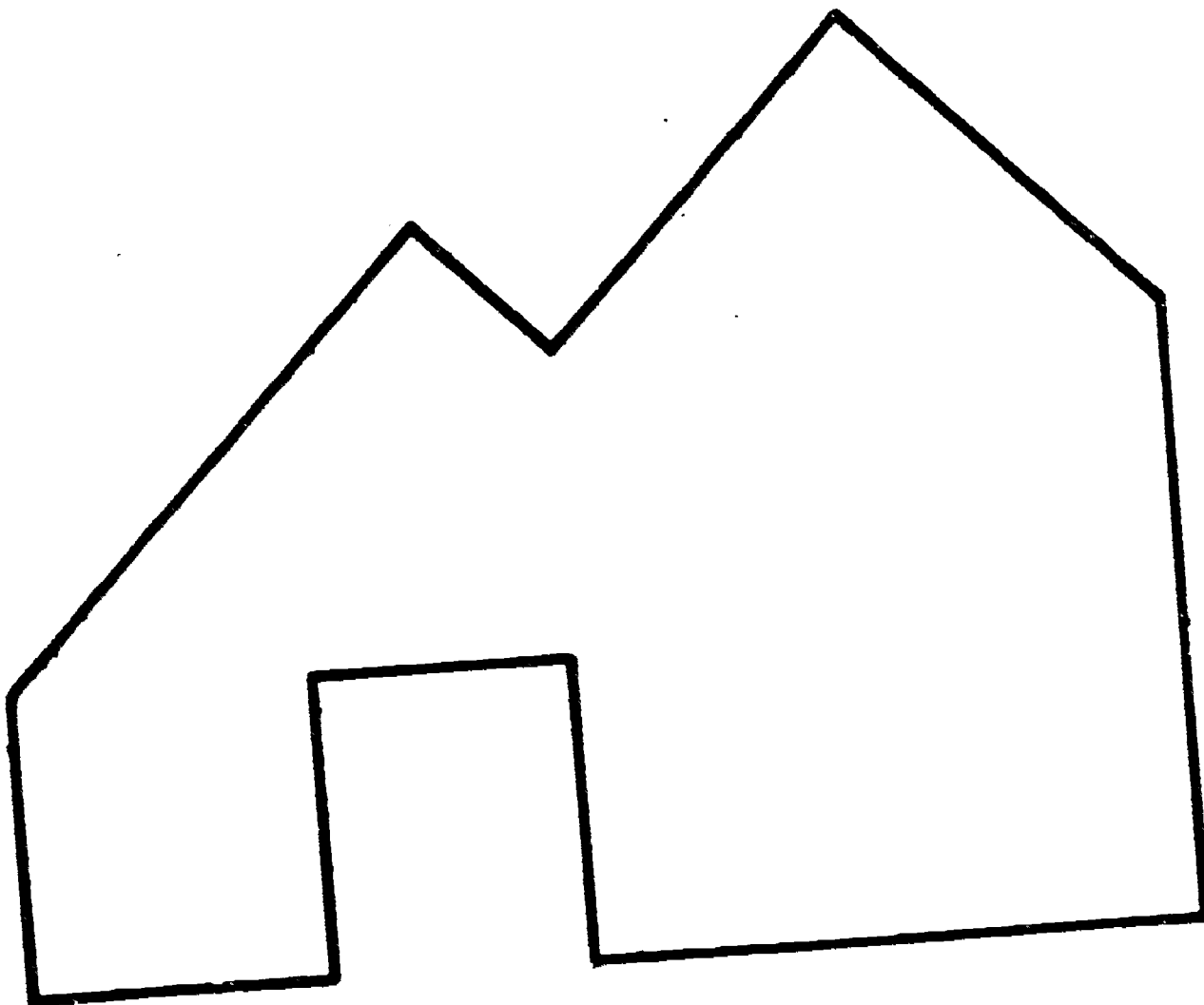
LEVEL TWO

Tangram Challenge #8



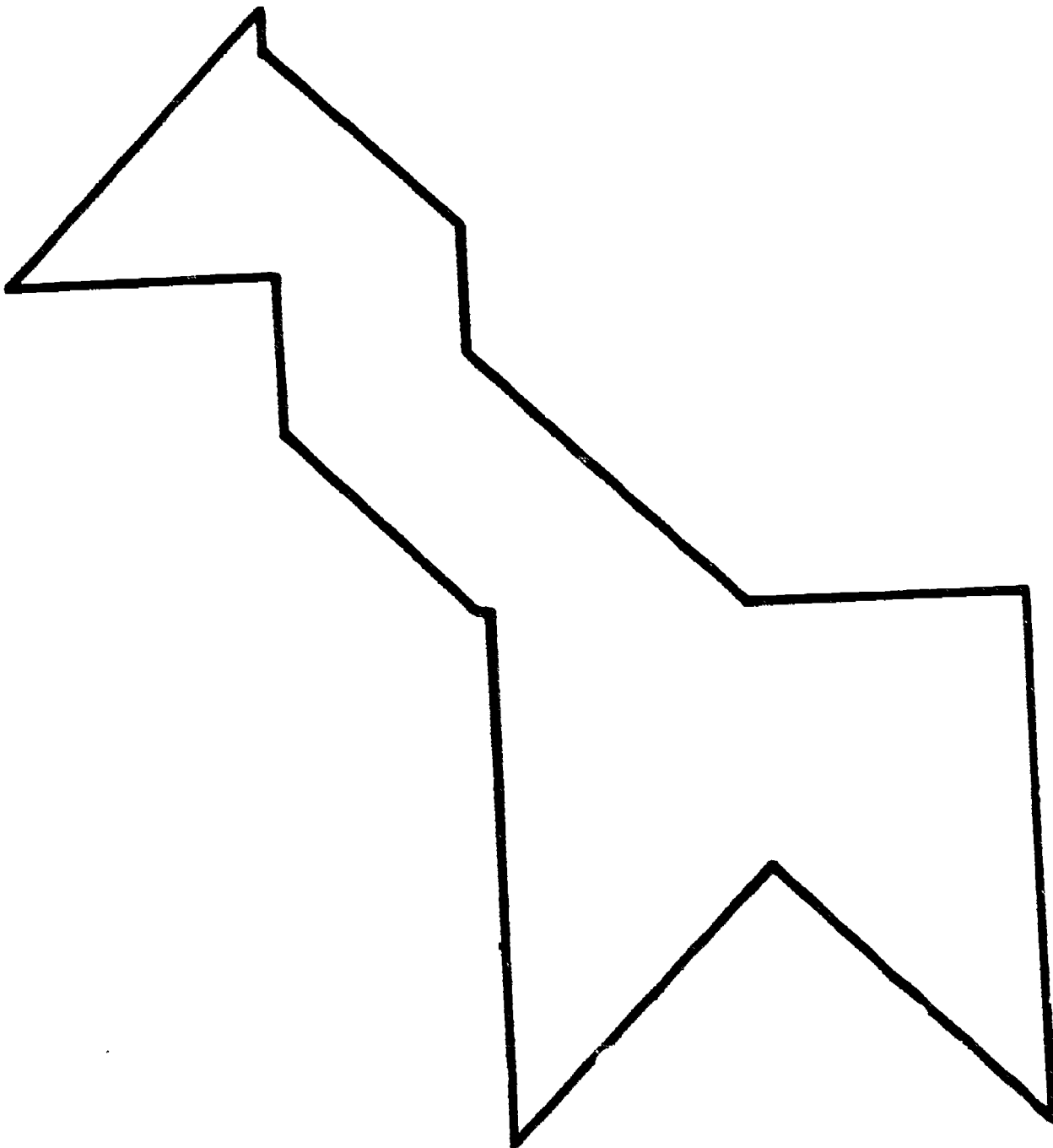
LEVEL TWO

Tangram Challenge #9



LEVEL TWO

Tangram Challenge #10



MATHEMATICIAN: _____

MY GEOBOARD RECORD

1

2

3

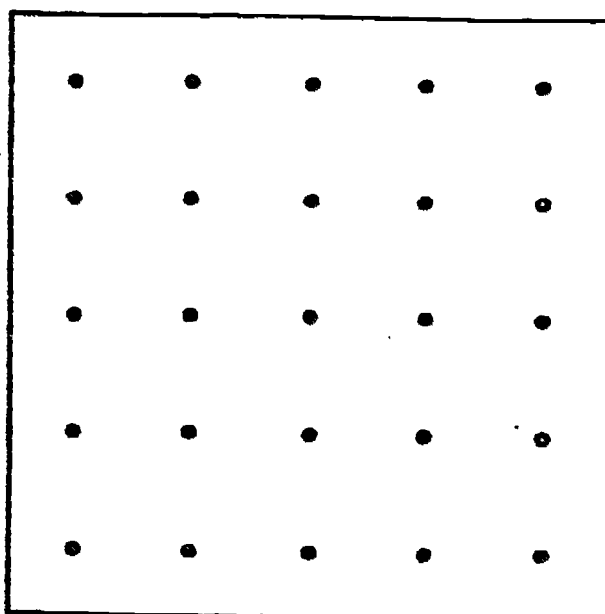
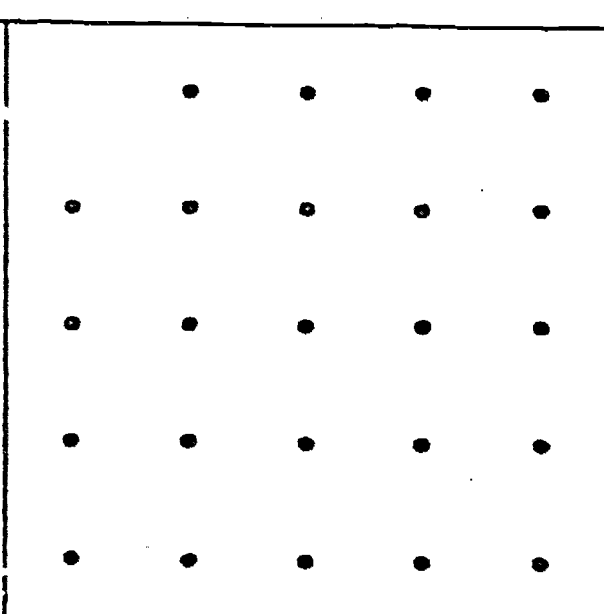
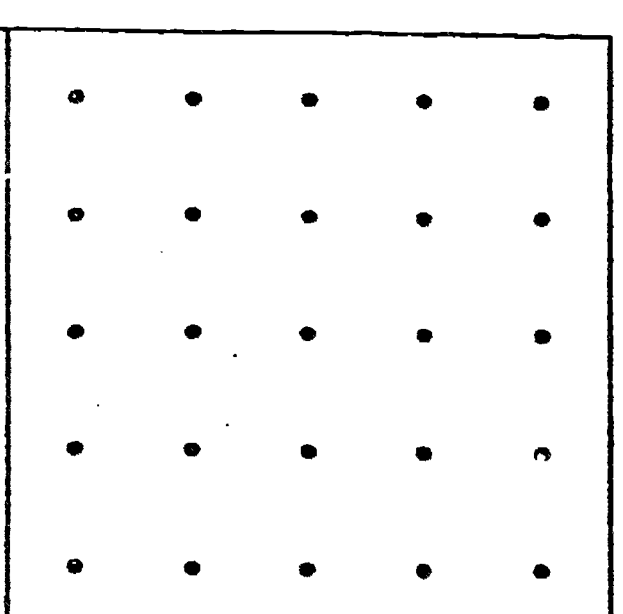
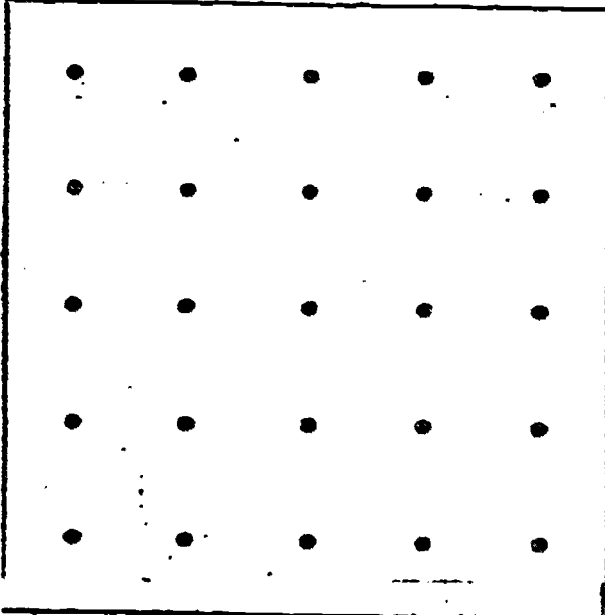
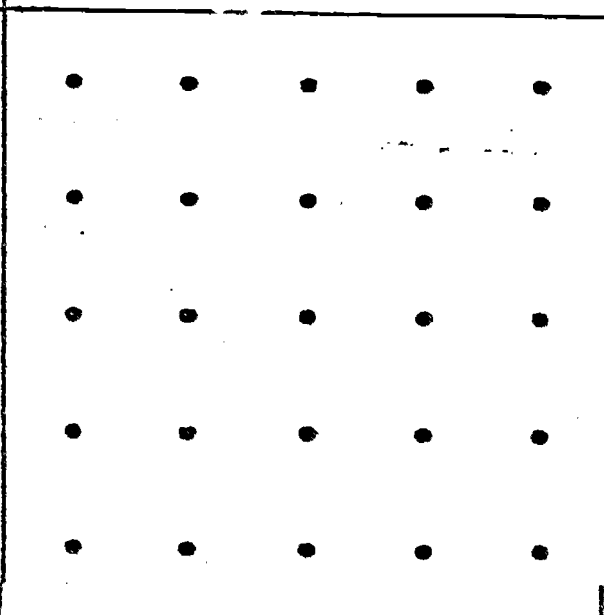
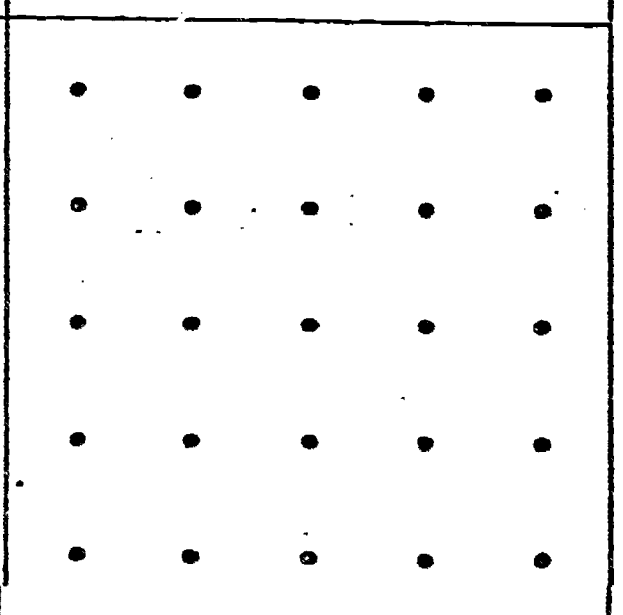
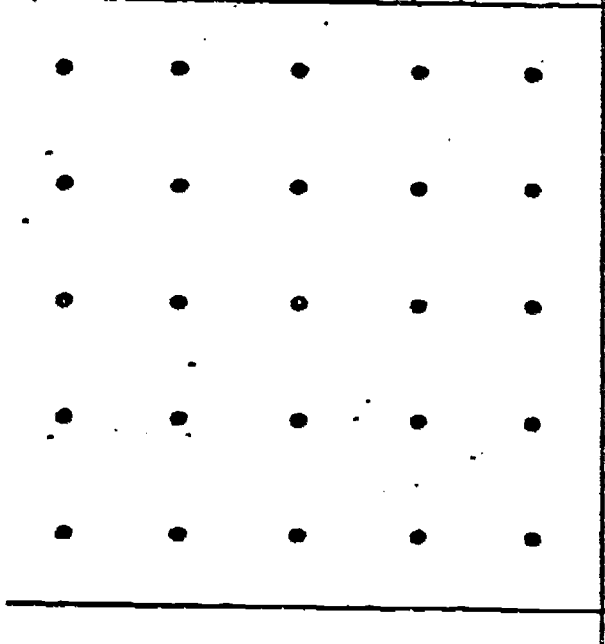
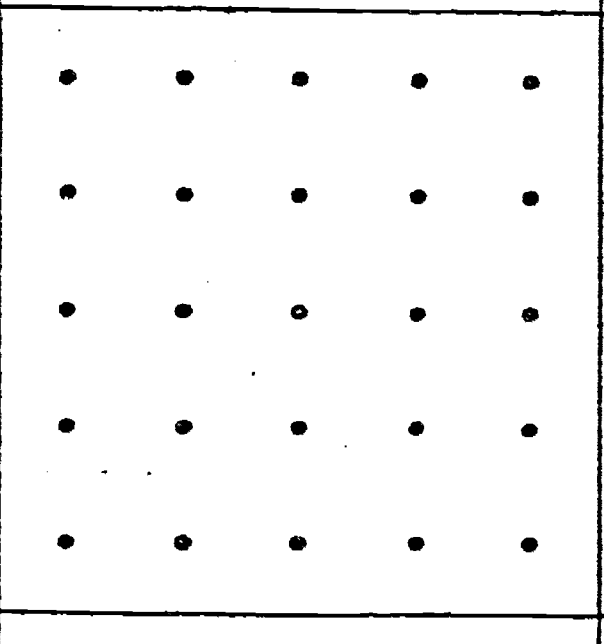
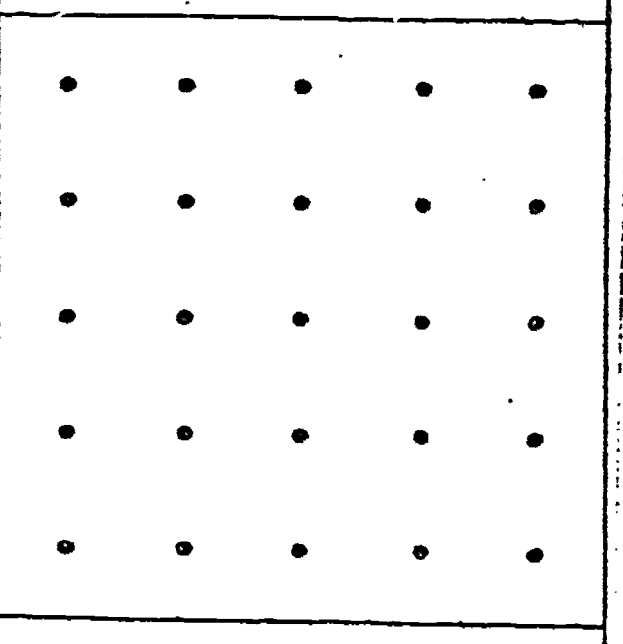
4

5

Number of sides of shapes	Number of pins INSIDE	Number of Pins TOUCHING BAND	Number of Pins OUTSIDE	Number of Pins on the Board

MATHEMATICIAN: _____

My Geoboard Record

+	0	1	2	3	4	5	6	7	8	9
0	0	1	2	3	4	5	6	7	8	9
1	1	2	3	4	5	6	7	8	9	10
2	2	3	4	5	6	7	8	9	10	11
3	3	4	5	6	7	8	9	10	11	12
4	4	5	6	7	8	9	10	11	12	13
5	5	6	7	8	9	10	11	12	13	14
6	6	7	8	9	10	11	12	13	14	15
7	7	8	9	10	11	12	13	14	15	16
8	8	9	10	11	12	13	14	15	16	17
9	9	10	11	12	13	14	15	16	17	18

X	0	1	2	3	4	5	6	7	8	9
0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9
2	0	2	4	6	8	10	12	14	16	18
3	0	3	6	9	12	15	18	21	24	27
4	0	4	8	12	16	20	24	28	32	36
5	0	5	10	15	20	25	30	35	40	45
6	0	6	12	18	24	30	36	42	48	54
7	0	7	14	21	28	35	42	49	56	63
8	0	8	16	24	32	40	48	56	64	72
9	0	9	18	27	36	45	54	63	72	81

X											

Mathematician: _____

COMPUTATION

PICTURE
HUNDREDS TENS ONES

NUMBER
SENTENCE

+ _____

+ □

||

x

+ _____ = _____

□

||||

xxx

46

+ _____

93

+ _____ = _____

+ _____

99 = 62 + _____

+ _____

+

||||

x

= _____ + _____

|||||

xxxx

+ _____

86

104

+ _____ = _____

+ _____

+

|||||

xxx

= _____ + _____

□

xxxxxx

+ _____

101 = 75 + _____

Mathematician: _____

NUMBER SENTENCE

COMPUTATION FORM

Example!

$$31 + 43 = 74$$

$$\begin{array}{r} 31 \\ + 43 \\ \hline 74 \end{array}$$

$$26 - 14 =$$

$$\begin{array}{r} 36 \\ + 21 \\ \hline \end{array}$$

$$= 21 + 36$$

Mathematician: _____

NUMBER SENTENCE

COMPUTATION FORM

$$= 32 - 15$$

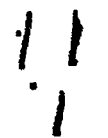

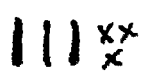
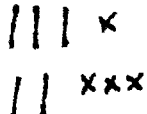
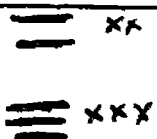
$$\begin{array}{r} 60 \\ - 37 \\ \hline \end{array}$$

$$28 + 33 =$$

$$\begin{array}{r} 42 \\ + 39 \\ \hline \end{array}$$

249

Mathematician: _____

COMPUTATION	PICTURE HUNDREDS TENS ONES			NUMBER SENTENCE
Example: $\begin{array}{r} 22 \\ + 11 \\ \hline 33 \end{array}$				$22 + 11 = 33$
				
$\begin{array}{r} + \\ \hline \end{array}$				$\quad + \quad = \quad$
$\begin{array}{r} + \\ \hline \end{array}$				$38 = 24 + 14$
$\begin{array}{r} 27 \\ + 18 \\ \hline \end{array}$				$\quad = \quad + \quad$
$\begin{array}{r} + \\ \hline \end{array}$				$\quad + \quad = \quad$
$\begin{array}{r} + \\ \hline \end{array}$				$\quad = 26 + 35$
$\begin{array}{r} 16 \\ + 29 \\ \hline \end{array}$				$\quad = \quad + \quad$

Mathematician: _____

COMPUTATION	PICTURE			NUMBER SENTENCE
	HUNDREDS	TENS	ONES	
Example: $\begin{array}{r} 113 \\ + 106 \\ \hline 219 \end{array}$	<div>□</div> <div>□</div> <div>□□</div>	<div>—</div> <div></div> <div>—</div>	<div>xxx</div> <div>xxxx</div> <div>xxxxx</div>	$113 + 106 = 219$
$\begin{array}{r} 104 \\ + 107 \\ \hline \end{array}$				$\quad + \quad = \quad$
$\begin{array}{r} 82 \\ + \quad \end{array}$				$82 = 19 + \quad$
$\begin{array}{r} 73 \\ + 108 \\ \hline \end{array}$				$\quad = \quad + \quad$
$\begin{array}{r} 42 \\ + 99 \\ \hline \end{array}$				$\quad + \quad = \quad$
$\begin{array}{r} \quad \\ + \quad \end{array}$	<div>□</div> <div>□□</div>	<div>==</div> <div>≡</div>	<div>xx</div> <div>xxxxx</div>	$\quad = \quad + \quad$
$\begin{array}{r} \quad \\ + \quad \end{array}$				$\quad = 76 + 27$

MATHEMATICIAN: _____

$$\begin{array}{r} + 58 \\ 24 \\ \hline \end{array}$$

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\begin{array}{r} + 21 \\ 72 \\ \hline \end{array}$$

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\begin{array}{r} + \\ \hline \end{array}$$

$$\underline{\hspace{2cm}} + 17 = 63$$

$$\begin{array}{r} + \\ \hline \end{array}$$

$$83 = \underline{\hspace{2cm}} + 42$$

$$\begin{array}{r} + 61 \\ \hline 85 \end{array}$$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

$$\begin{array}{r} + 22 \\ + 48 \\ \hline \end{array}$$

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\begin{array}{r} + \\ \hline \end{array}$$

$$81 + \underline{\hspace{2cm}} = 100$$

$$\begin{array}{r} + \\ \hline \end{array}$$

$$\underline{\hspace{2cm}} = 27 + 45$$

$$\begin{array}{r} + \\ \hline \end{array}$$

$$21 = 15 + \underline{\hspace{2cm}}$$

$$\begin{array}{r} + 41 \\ 56 \\ \hline \end{array}$$

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\begin{array}{r} + 27 \\ \hline 99 \end{array}$$

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\begin{array}{r} + 22 \\ 68 \\ \hline \end{array}$$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

MATHEMATICIAN: _____

Example:

$$\begin{array}{r} 21 \\ + 32 \\ \hline 53 \end{array}$$

$$\underline{21} + \underline{32} = \underline{53}$$

$$\begin{array}{r} 16 \\ + 18 \\ \hline \end{array}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} = \underline{14} + \underline{18}$$

$$\underline{\quad} + \underline{\quad} = \underline{30}$$

$$\begin{array}{r} 21 \\ + \\ \hline 64 \end{array}$$

$$\underline{\quad} = \underline{\quad} + \underline{\quad}$$

$$\underline{\quad} + \underline{50} + \underline{21} = \underline{\quad}$$

$$\begin{array}{r} 50 \\ - \\ \hline 22 \end{array}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\begin{array}{r} 16 \\ - \\ \hline 12 \end{array}$$

$$\underline{\quad} = \underline{\quad} + \underline{\quad}$$

$$\underline{25} + \underline{\quad} = \underline{40}$$

$$\underline{28} = \underline{15} + \underline{\quad}$$

$$\begin{array}{r} 18 \\ + \\ \hline 61 \end{array}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\begin{array}{r} 71 \\ + 3 \\ \hline \end{array}$$

$$\underline{\quad} = \underline{\quad} + \underline{\quad}$$

MATHEMATICIAN: _____

Example:

$$\begin{array}{r} 28 \\ - 15 \\ \hline 13 \end{array}$$

$$\underline{28} - \underline{15} = \underline{13}$$

$$\begin{array}{r} 23 \\ - 14 \\ \hline \end{array}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{16} = \underline{24}$$

$$\underline{\quad} = \underline{32} - \underline{15}$$

$$\begin{array}{r} 75 \\ - \\ \hline 50 \end{array}$$

$$\underline{21} = \underline{\quad} - \underline{16}$$

$$\begin{array}{r} 21 \\ - \\ \hline \end{array}$$

$$\underline{\quad} - \underline{23} = \underline{20}$$

$$\begin{array}{r} \square \\ - 14 \\ \hline 26 \end{array}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\begin{array}{r} 6 \\ 40 \\ - 11 \\ \hline \end{array}$$

$$\underline{\quad} = \underline{\quad} - \underline{\quad}$$

$$\underline{21} = \underline{43} - \underline{\quad}$$

$$\begin{array}{r} 30 \\ - \\ \hline \end{array}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\begin{array}{r} 16 \\ - \\ \hline 8 \end{array}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\begin{array}{r} 18 \\ \hline \end{array}$$

$$\underline{\quad} = \underline{27} - \underline{19}$$

MATHEMATICIAN: _____

Example:

$$\begin{array}{r} 41 \\ + 26 \\ \hline 67 \end{array}$$

$$\underline{41} + \underline{26} = \underline{67}$$

$$\begin{array}{r} 52 \\ + 21 \\ \hline \end{array}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\begin{array}{r} + \\ \hline \end{array}$$

$$\underline{36} + \underline{32} = \underline{\quad}$$

$$\begin{array}{r} + \\ \hline \end{array}$$

$$\underline{36} = \underline{28} + \underline{\quad}$$

$$\begin{array}{r} 18 \\ + 17 \\ \hline \end{array}$$

$$\underline{\quad} = \underline{\quad} + \underline{\quad}$$

$$\begin{array}{r} + \\ \hline \end{array}$$

$$\underline{51} + \underline{21} = \underline{\quad}$$

$$\begin{array}{r} + \\ \hline \end{array}$$

$$\underline{21} + \underline{21} = \underline{\quad}$$

$$\begin{array}{r} 32 \\ + 62 \\ \hline \end{array}$$

$$\underline{\quad} = \underline{\quad} + \underline{\quad}$$

$$\begin{array}{r} 23 \\ + 47 \\ \hline \end{array}$$

$$\underline{\quad} = \underline{\quad} + \underline{\quad}$$

$$\begin{array}{r} + \\ \hline \end{array}$$

$$\underline{18} + \underline{49} = \underline{\quad}$$

$$\begin{array}{r} + \\ \hline \end{array}$$






$$\underline{26} + \underline{38} = \underline{\quad}$$



$$\begin{array}{r} 20 \\ + 18 \\ \hline \end{array}$$

$$\underline{\quad} = \underline{\quad} + \underline{\quad}$$

MATHEMATICIAN: _____





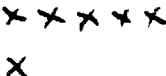

Picture/Numerals Worksheet



Picture		Numerals	
		TENS	ONES
			
$+$ 	\times		
<hr/>		<hr/>	

		TENS	ONES
		2	1
		$+$ 4	2
<hr/>		<hr/>	

MATHEMATICIAN: _____

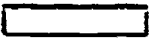

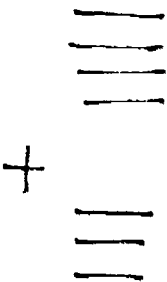


Picture/Numerals Worksheet



Picture		Numerals	
		TENS	ONES
 	 		

		TENS	ONES
		3	5
		- 2	1

MATHEMATICIAN: _____



Picture/Numerals Worksheet






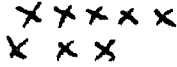
Picture		Numerals	
		TENS	ONES
  <hr/>	 <hr/>	<hr/>	<hr/>

		TENS	ONES
		7	4
		- 4	1
<hr/>	<hr/>	<hr/>	<hr/>

MATHEMATICIAN: _____



Picture/Numerals Worksheet





Picture		Numerals	
		TENS	ONES
		$\begin{array}{r} 3 \\ + 1 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ 8 \end{array}$

Picture		Numerals	
		TENS	ONES
			
			

MATHEMATICIAN: _____



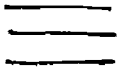


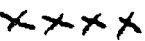
Picture/Numerals Worksheet



Picture		Numerals	
		TENS	ONES
		2 + 3	9 1

		TENS	ONES
			

MATHEMATICIAN: _____

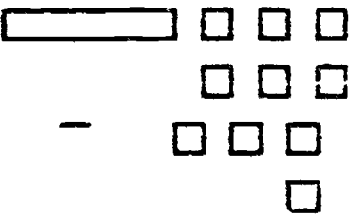
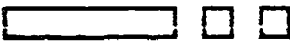
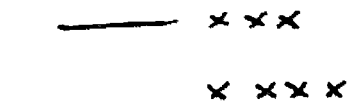
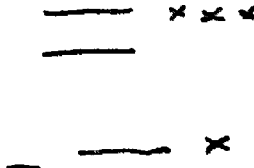

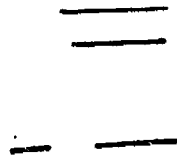
Picture/Numerals Worksheet

Picture		Numerals	
		TENS	ONES
			
+ 			
<hr/>		<hr/>	

		TENS	ONES
		5	7
		- 2	4
<hr/>		<hr/>	

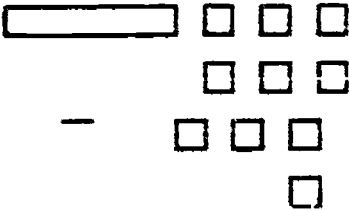
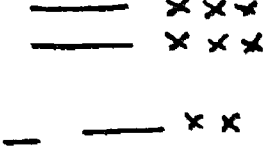

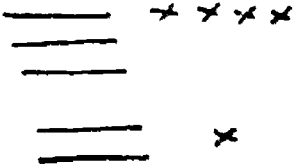
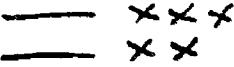

Mathematician: _____

My Base Ten Block Record

Picture	Numerals		Picture	Numerals	
Example: 	TENS	ONES		TENS	ONES
	1	6		1	7
	-	4		-	8
	1	2			
	TENS	ONES		TENS	ONES
	2	2		2	1
	- 1	1		- 1	0
	TENS	ONES		TENS	ONES
	TENS	ONES		TENS	ONES

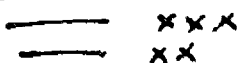
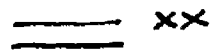
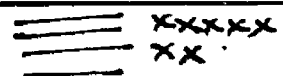
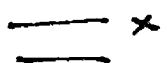

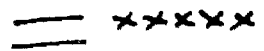
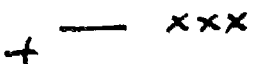
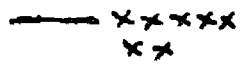
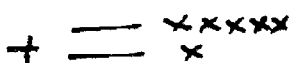
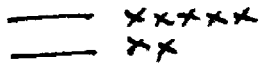

Mathematician: _____

My Base Ten Block Record

Picture	Numerals		Picture	Numerals	
Example: 	TENS	ONES		TENS	ONES
	1	6			
	-	4			
	1	2			
	TENS	ONES		TENS	ONES
				2	3
				-	7
	TENS	ONES		TENS	ONES
	2	8			
	- 1	3			
	TENS	ONES		TENS	ONES
	3	1		1	4
	- 1	8		-	6

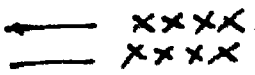
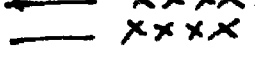
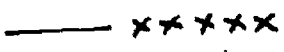
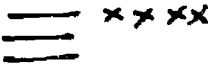
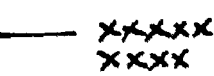
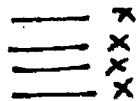
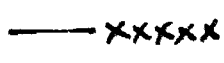
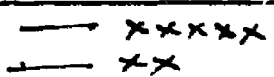
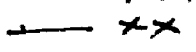
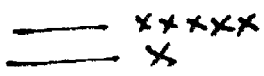
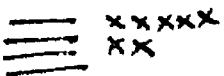
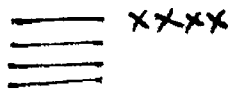
Mathematician: _____

My Base Ten Block Record

Picture	Numerals		Picture	Numerals	
Example:  + 	TENS	ONES		TENS	ONES
	2	5		2	3
	+ 2	2		+ 2	7
	4	7			
 + 	TENS	ONES	 + 	TENS	ONES
	TENS	ONES	 + 	TENS	ONES
	2	3			
	+ 1	4			
 + 	TENS	ONES		TENS	ONES
				3	1
				+ 2	9

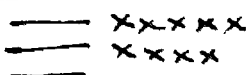
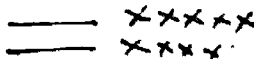
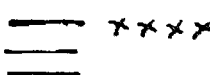
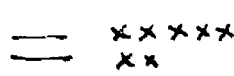
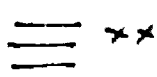
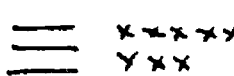
Mathematician: _____

My Base Ten Block Record

Picture	Numerals		Picture	Numerals	
Exemplar:   + 	TENS	ONES	 + 	TENS	ONES
	TENS	ONES	 + 	TENS	ONES
	1	9			
	+ 2	2			
  + 	TENS	ONES		TENS	ONES
				4	6
				+ 2	8
	TENS	ONES	 + 	TENS	ONES
	3	0		4	7
	+ 2	1		+ 4	4

Mathematician: _____

My Base Ten Block Record

Picture	Numerals		Picture	Numerals	
Example:  + 	TENS	ONES	 + 	TENS	ONES
	TENS	ONES		TENS	ONES
	3	1		2	2
	+ 2	9		+ 2	2
 	TENS	ONES		TENS	ONES
				3	7
				+ 3	8
	TENS	ONES		TENS	ONES
	2	7		1	8
	+ 2	2		+ 2	8

MATHEMATICIAN: _____

TILES MULTIPLICATION RECORD

ROWS X	COLUMNS =	TILES USED	Number Sentence
2	3	6	2 X 3 = 6
2	4		
2	5		
2	6		
2	7		
2	8		
2	9		
2	10		
3	1		
3	2		
3	3		
3	4		
3	5		
3	6		
3	7		
3	8		

MATHEMATICIAN: _____

TILES MULTIPLICATION RECORD

ROWS X	COLUMNS =	TILES USED	Number Sentence
3	9		
3	10		
4	2		
4	3		
4	4		
4	5		
4	6		
4	7		
4	8		
4	9		
4	10		
5	2		
5	3		
5	4		
5	6		

MATHEMATICIAN: _____

TILES MULTIPLICATION RECORD

ROWS X	COLUMNS =	TILES USED	Number Sentence
5	7		
5	8		
5	9		
5	10		
6	2		
6	3		
6	4		
6	6		
6	7		
6	8		
6	9		
6	10		

MATHEMATICIAN: _____

My Multiplication Record Using Tiles

ROWS (X) COLUMNS (=) TILES USED NUMBER SENTENCES

2

8

3

9

12

$12 = 2 \times 6$

3

4

3

15

2

12

3

$12 = 3 \times 4$

5

10

2

7

4

$12 = 4 \times 3$

5

$5 \times 2 = 10$

6

12

MATHEMATICIAN: _____

My Multiplication Record Using Tiles

ROWS (X) COLUMNS (=) TILES USED NUMBER SENTENCES

5

15

$$18 = 3 \times 6$$

4

$$5 \times 4 = 20$$

6

6

5

10

3

3

$$5 \times 1 = 5$$

4

2

4

16

6

12

$$16 = 2 \times 8$$

7

7

MATHEMATICIAN: _____

My Multiplication Record Using Tiles

ROWS (X) COLUMNS (=) TILES USED NUMBER SENTENCES

$6 \times 4 = 24$

$2 \times 3 = 6$

$12 = 3 \times 4$

$12 = 4 \times 3$

$15 = 3 \times 5$

$3 \times 5 = 15$

$4 \times 2 = 8$

$8 = 2 \times 4$

$10 = 5 \times 2$

$2 \times 5 = 10$

$6 \times 2 = 12$

$2 \times 6 = 12$

MATHEMATICIAN: _____

My Multiplication Record Using Tiles

ROWS (x) COLUMNS (=) TILES USED NUMBER SENTENCES

			$2 \times 3 =$
			$3 \times 3 =$
			$= 3 \times 4$
			$= 4 \times 5$
			$4 \times 4 =$
			$5 \times 6 =$
			$= 3 \times 5$
			$= 3 \times 6$
			$4 \times 7 =$
			$= 2 \times 6$
			$= 2 \times 5$
			$2 \times 4 =$

MATHEMATICIAN: _____

My Multiplication Record Using Tiles

ROWS (X) COLUMNS (=) TILES USED NUMBER SENTENCES

			$\square \times 3 = 12$
			$4 \times \square = 16$
			$3 \times 5 =$
			$4 \times 2 =$
			$= 4 \times 9$
			$\square \times 5 = 35$
			$= 5 \times 5$
			$5 \times 6 =$
			$6 \times 7 =$
			$= 5 \times 8$
			$6 \times 6 =$
			$= 6 \times 8$

MATHEMATICIAN: _____

My Multiplication Record Using Tiles

ROWS (X) COLUMNS (=) TILES USED NUMBER SENTENCES

	3	24	
4		16	
5		35	
	2	8	
	3	12	
3		15	
3		21	
	2	10	
2	8		
2		20	
3		24	
	5	15	

MATHEMATICIAN: _____

My Multiplication Record Using Tiles

ROWS (X) COLUMNS (=) TILES USED NUMBER SENTENCES

3

6

9

18

$$2 \times \square = 10$$

$$3 \times 4 =$$

$$= 4 \times 5$$

4

24

6

12

$$3 \times 8 =$$

2

2

7

3

3

18

7

21

MATHEMATICIAN: _____

My Multiplication Record Using Tiles

ROWS	(X)	COLUMNS (=)	TILES USED	NUMBER SENTENCES
1	1	1	1	1
2	2	2	4	3
3	3	3	9	13
4	4	4	16	35
5	5	5	25	85
6	6	6	36	203
7	7	7	49	485
8	8	8	64	1103
9	9	9	81	2541
10	10	10	100	5775
11	11	11	121	13003
12	12	12	144	29523
13	13	13	169	66255
14	14	14	196	148287
15	15	15	225	336495
16	16	16	256	763443
17	17	17	289	1724655
18	18	18	324	3906573
19	19	19	361	8825475
20	20	20	400	19785123
21	21	21	441	44741025
22	22	22	484	100616643
23	23	23	529	227016625
24	24	24	576	511016643
25	25	25	625	1146016625
26	26	26	676	2574016643
27	27	27	729	5806016625
28	28	28	784	12946016643
29	29	29	841	29066016625
30	30	30	900	65066016643
31	31	31	961	14566016625
32	32	32	1024	32666016643
33	33	33	1089	73866016625
34	34	34	1156	165466016643
35	35	35	1225	370666016625
36	36	36	1296	826666016643
37	37	37	1369	1854666016625
38	38	38	1444	4146666016643
39	39	39	1521	9266666016625
40	40	40	1600	20746666016643
41	41	41	1681	46466666016625
42	42	42	1764	10346666016643
43	43	43	1849	23066666016625
44	44	44	1936	51466666016643
45	45	45	2025	114666666016625
46	46	46	2116	25666666016643
47	47	47	2209	57466666016625
48	48	48	2304	127466666016643
49	49	49	2401	285466666016625
50	50	50	2500	640666666016643
51	51	51	2601	143666666016625
52	52	52	2704	320666666016643
53	53	53	2809	718666666016625
54	54	54	2916	159466666016643
55	55	55	3025	356666666016625
56	56	56	3136	794666666016643
57	57	57	3249	177466666016625
58	58	58	3364	394666666016643
59	59	59	3481	886666666016625
60	60	60	3600	197466666016643
61	61	61	3721	442666666016625
62	62	62	3844	986666666016643
63	63	63	3969	221466666016625
64	64	64	4096	494666666016643
65	65	65	4225	110666666016625
66	66	66	4356	246666666016643
67	67	67	4489	554666666016625
68	68	68	4624	123466666016643
69	69	69	4761	278666666016625
70	70	70	4900	618666666016643
71	71	71	5041	139466666016625

[illegible]

X	0	1	2	3	4	5	6	7	8	9
0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9
2	0	2	4	6	8	10	12	14	16	18
3	0	3	6	9	12	15	18	21	24	27
4	0	4	8	12	16	20	24	28	32	36
5	0	5	10	15	20	25	30	35	40	45
6	0	6	12	18	24	30	36	42	48	54
7	0	7	14	21	28	35	42	49	56	63
8	0	8	16	24	32	40	48	56	64	72
9	0	9	18	27	36	45	54	63	72	81

MATHEMATICIAN: _____

My Multiplication Record Using Tiles

ROWS	(X)	COLUMNS (=)	TILES USED	NUMBER SENTENCES
1	1	1	1	1
2	2	2	4	4
3	3	3	9	9
4	4	4	16	16
5	5	5	25	25
6	6	6	36	36
7	7	7	49	49
8	8	8	64	64
9	9	9	81	81
10	10	10	100	100
11	11	11	121	121
12	12	12	144	144
13	13	13	169	169
14	14	14	196	196
15	15	15	225	225
16	16	16	256	256
17	17	17	289	289
18	18	18	324	324
19	19	19	361	361
20	20	20	400	400
21	21	21	441	441
22	22	22	484	484
23	23	23	529	529
24	24	24	576	576
25	25	25	625	625
26	26	26	676	676
27	27	27	729	729
28	28	28	784	784
29	29	29	841	841
30	30	30	900	900
31	31	31	961	961
32	32	32	1024	1024
33	33	33	1089	1089
34	34	34	1156	1156
35	35	35	1225	1225
36	36	36	1296	1296
37	37	37	1369	1369
38	38	38	1444	1444
39	39	39	1521	1521
40	40	40	1600	1600
41	41	41	1681	1681
42	42	42	1764	1764
43	43	43	1849	1849
44	44	44	1936	1936
45	45	45	2025	2025
46	46	46	2116	2116
47	47	47	2209	2209
48	48	48	2304	2304
49	49	49	2401	2401
50	50	50	2500	2500
51	51	51	2601	2601
52	52	52	2704	2704
53	53	53	2809	2809
54	54	54	2916	2916
55	55	55	3025	3025
56	56	56	3136	3136
57	57	57	3249	3249
58	58	58	3364	3364
59	59	59	3481	3481
60	60	60	3600	3600
61	61	61	3721	3721
62	62	62	3844	3844
63	63	63	3969	3969
64	64	64	4096	4096
65	65	65	4225	4225
66	66	66	4356	4356
67	67	67	4489	4489
68	68	68	4624	4624
69	69	69	4761	4761
70	70	70	4900	4900
71	71	71	5041	5041
72	72	72	5184	5184
73	73	73	5329	5329
74	74	74	5476	5476
75	75	75	5625	5625
76	76	76	5776	5776
77	77	77	5929	5929
78	78	78	6084	6084
79	79	79	6241	6241
80	80	80	6400	6400
81	81	81	6561	6561
82	82	82	6724	6724
83	83	83	6889	6889
84	84	84	7056	7056
85	85	85	7225	7225
86	86	86	7396	7396
87	87	87	7569	7569
88	88	88	7744	7744
89	89	89	7921	7921
90	90	90	8100	8100
91	91	91	8281	8281
92	92	92	8464	8464
93	93	93	8649	8649
94	94	94	8836	8836
95	95	95	9025	9025
96	96	96	9216	9216
97	97	97	9409	9409
98	98	98	9604	9604
99	99	99	9801	9801
100	100	100	10000	10000

[illegible]

MATHEMATICIAN: _____

My Multiplication Record Using Tiles

ROWS	(X)	COLUMNS	(=)	TILES USED	NUMBER SENTENCES
------	-----	---------	-----	------------	------------------

[illegible]

MATHEMATICIAN: _____

My Multiplication Record Using Tiles

ROWS	(X)	COLUMNS (=)	TILES USED	NUMBER SENTENCES
1	1	1	1	1
2	2	2	4	4
3	3	3	9	9
4	4	4	16	16
5	5	5	25	25
6	6	6	36	36
7	7	7	49	49
8	8	8	64	64
9	9	9	81	81
10	10	10	100	100
11	11	11	121	121
12	12	12	144	144
13	13	13	169	169
14	14	14	196	196
15	15	15	225	225
16	16	16	256	256
17	17	17	289	289
18	18	18	324	324
19	19	19	361	361
20	20	20	400	400
21	21	21	441	441
22	22	22	484	484
23	23	23	529	529
24	24	24	576	576
25	25	25	625	625
26	26	26	676	676
27	27	27	729	729
28	28	28	784	784
29	29	29	841	841
30	30	30	900	900
31	31	31	961	961
32	32	32	1024	1024
33	33	33	1089	1089
34	34	34	1156	1156
35	35	35	1225	1225
36	36	36	1296	1296
37	37	37	1369	1369
38	38	38	1444	1444
39	39	39	1521	1521
40	40	40	1600	1600
41	41	41	1681	1681
42	42	42	1764	1764
43	43	43	1849	1849
44	44	44	1936	1936
45	45	45	2025	2025
46	46	46	2116	2116
47	47	47	2209	2209
48	48	48	2304	2304
49	49	49	2401	2401
50	50	50	2500	2500
51	51	51	2601	2601
52	52	52	2704	2704
53	53	53	2809	2809
54	54	54	2916	2916
55	55	55	3025	3025
56	56	56	3136	3136
57	57	57	3249	3249
58	58	58	3364	3364
59	59	59	3481	3481
60	60	60	3600	3600
61	61	61	3721	3721
62	62	62	3844	3844
63	63	63	3969	3969
64	64	64	4096	4096
65	65	65	4225	4225
66	66	66	4356	4356
67	67	67	4489	4489
68	68	68	4624	4624
69	69	69	4761	4761
70	70	70	4900	4900
71	71	71	5041	5041
72	72	72	5184	5184
73	73	73	5329	5329
74	74	74	5476	5476
75	75	75	5625	5625
76	76	76	5776	5776
77	77	77	5929	5929
78	78	78	6084	6084
79	79	79	6241	6241
80	80	80	6400	6400
81	81	81	6561	6561
82	82	82	6724	6724
83	83	83	6889	6889
84	84	84	7056	7056
85	85	85	7225	7225
86	86	86	7396	7396
87	87	87	7569	7569
88	88	88	7744	7744
89	89	89	7921	7921
90	90	90	8100	8100
91	91	91	8281	8281
92	92	92	8464	8464
93	93	93	8649	8649
94	94	94	8836	8836
95	95	95	9025	9025
96	96	96	9216	9216
97	97	97	9409	9409
98	98	98	9604	9604
99	99	99	9801	9801
100	100	100	10000	10000

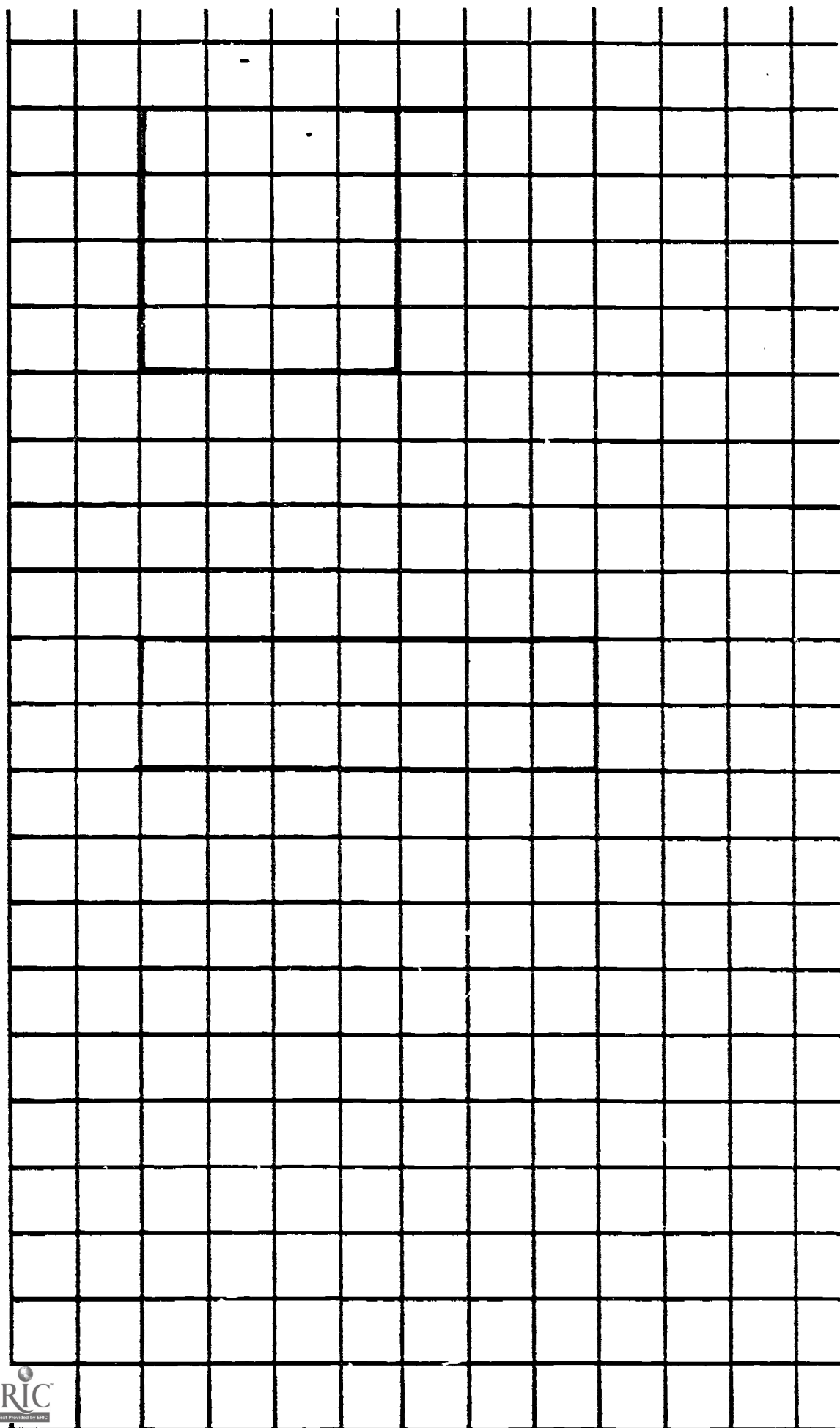
[illegible]

MATHEMATICIAN

Recording Multiplication Rectangles

Tile Rectangle

Number Sentence



$$15 = 3 \times 5$$

MATHEMATICIAN

Recording Multiplication Rectangles

Tile Rectangle

Number Sentence

The grid is a 12x12 array of squares. A 1x5 rectangle is drawn in the top-left corner, spanning the first row and the first five columns. A 3x3 square is drawn in the bottom-left corner, spanning the last three rows and the first three columns.

$$1 \times 5 = 5$$

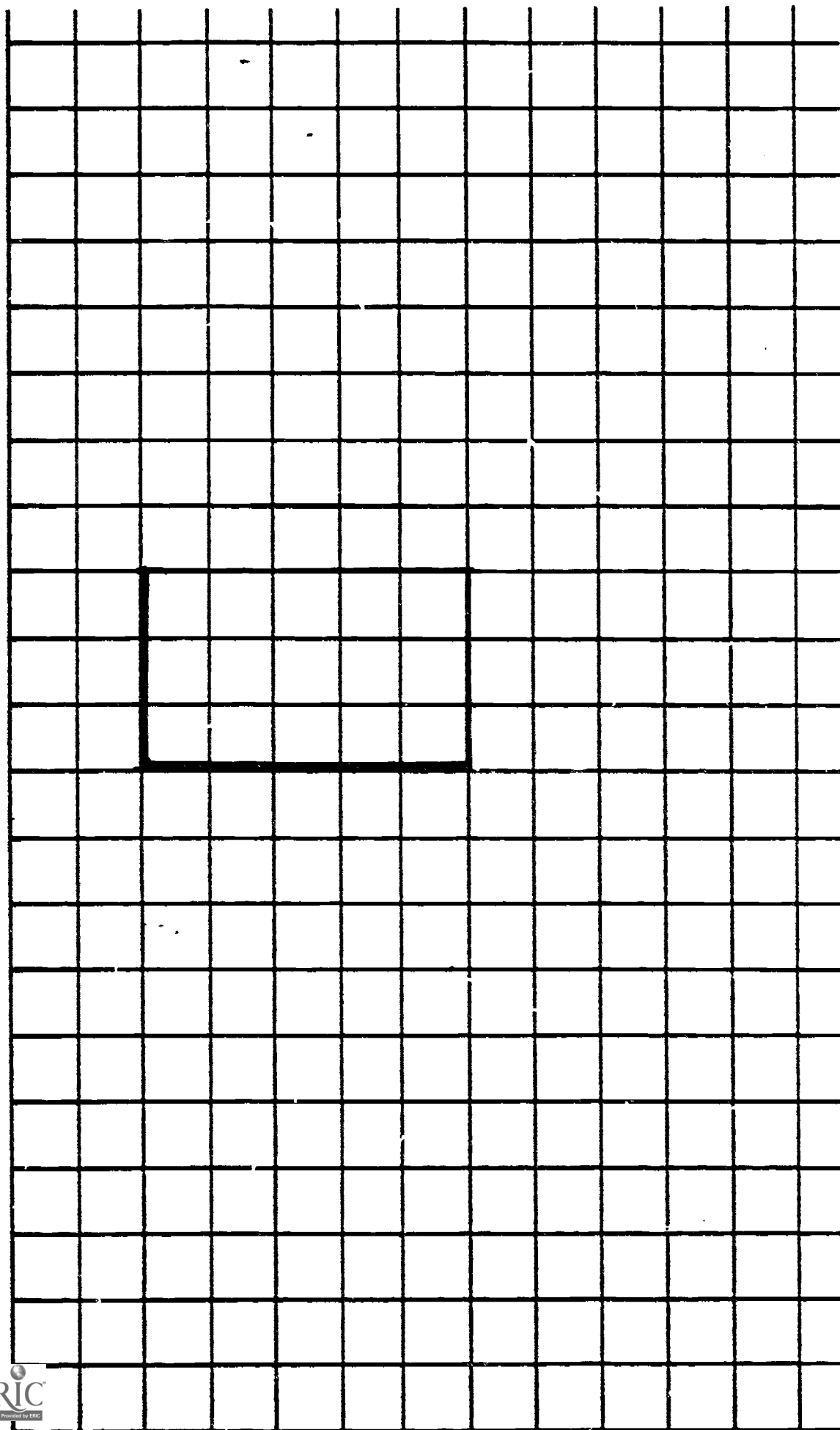
$$9 = 3 \times 3$$

MATHEMATICIAN

Recording Multiplication Rectangles

Tile Rectangle

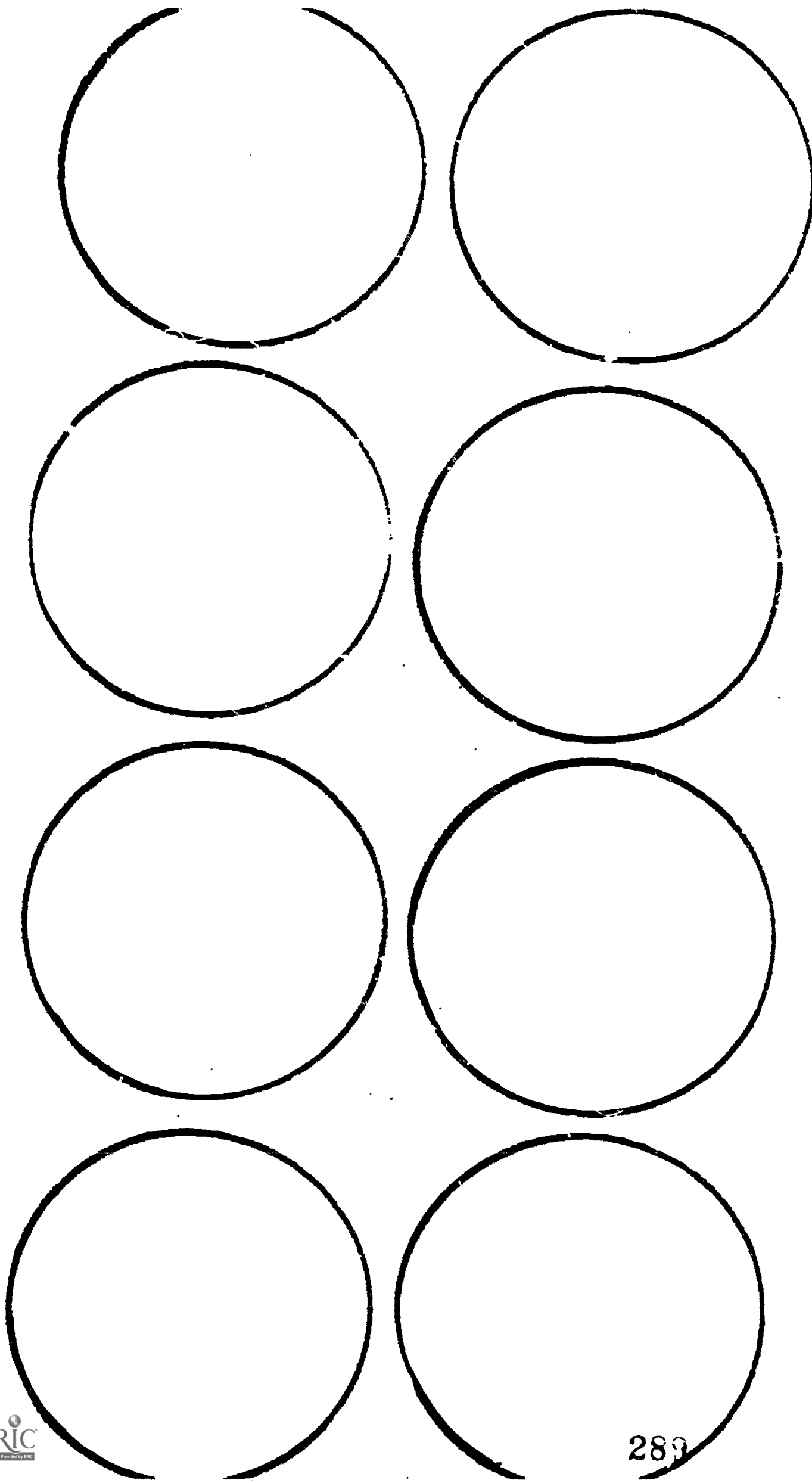
Number Sentence



$$4 \times 3 = 12$$

$$12 = 2 \times 6$$

Blank "Cups"



MATHEMATICIAN: _____

BEANS MULTIPLICATION RECORD

Beans in Each Cup	x	Number of Cups =	Beans Used	Number Sentence
1		2	2	$1 \times 2 = 2$
2		2	4	$2 \times 2 = 4$
3		2		
4		2		
5		2		
6		2		
7		2		
8		2		
9		2		
10		2		
1		3		
2		3		
3		3		
4		3		
5		3		

MATHEMATICIAN: _____

BEANS MULTIPLICATION RECORD

Beans in Each Cup	x	Number of Cups =	Beans Used	Number Sentence
1		7	7	$1 \times 7 = 7$
2		7		
3		7		
4		7		
5		6		
6		7		
7		7		
8		7		
9		7		
10		7		
1		8		
2		8		
3		8		
4		8		
5		8		
6		8		

MATHEMATICIAN: _____

BEANS MULTIPLICATION RECORD

Beans in Each Cup	x	Number of Cups =	Beans Used	Number Sentence
7		8		
8		8		
9		8		
10		8		
1		9		
2		9		
3		9		
4		9		
5		9		
6		9		
7		9		
8		9		
9		9		
10		9		
1		10		
2		10		

MATHEMATICIAN: _____

BEANS MULTIPLICATION RECORD

[illegible]

MATHEMATICIAN: _____

BEANS MULTIPLICATION RECORD

Beans in Each Cup	x	Number of Cups =	Beans Used	Number Sentence
4		5		
5		5		
6		5		
7		5		
8		5		
9		5		
10		5		
1		6		
2		6		
3		6		
4		6		
5		6		
6		6		
7		6		
8		6		
9		6		
10		6		

MATHEMATICIAN: _____

BEANS MULTIPLICATION RECORD

Beans in Each Cup	x	Number of Cups =	Beans Used	Number Sentence
6		3		
7		3		
8		3		
9		3		
10		3		
1		4		
2		4		
4		4		
5		4		
6		4		
7		4		
8		4		
9		4		
10		4		
1		5		
2		5		
3		5		

MATHEMATICIAN: _____

BEANS MULTIPLICATION RECORD

[illegible]

MATHEMATICIAN: _____

BEANS MULTIPLICATION RECORD

[illegible]

MATHEMATICIAN: _____

BEANS MULTIPLICATION RECORD

Beans in Each Cup x	Number of Cups	Beans Used	Number Sentence
3		12	
	2	16	
2		10	
3		18	
	3	15	
4		28	
	4	24	
6		18	
5		20	
	6	36	
3		9	
	4	16	
5		25	
	6	36	
2		4	
5	3		

MATHEMATICIAN: _____

BEANS MULTIPLICATION RECORD

Beans in Each Cup x	Number of Cups	Beans Used	Number Sentence
			$3 \times 4 = 12$
			$2 \times 3 =$
			$2 \times 4 =$
			$3 \times 3 =$
			$= 3 \times 4$
			$= 4 \times 5$
			$\square \times 2 = 8$
			$\square \times 3 = 12$
			$= 5 \times 6$
			$= 7 \times 3$
			$= 4 \times 2$
			$\square \times 9 = 18$
			$\square \times 7 = 14$
			$4 \times 5 =$
			$3 \times 8 =$
			$3 \times \square = 27$

MATHEMATICIAN: _____

BEANS MULTIPLICATION RECORD

Beans in Each Cup x	Number of Cups =	Beans Used	Number Sentence
3		12	$3 \times \square =$
	4		$\square \times 4 = 16$
		12	$4 \times 3 =$
5	3		$= 15$
6	2		
	3	18	
			$4 \times \square = 24$
2		8	
	3	9	$\square \times 3 =$
2		16	
6		36	
5	2		
	3	21	
2	4		$8 =$
3	2		$6 =$
4	3		
2	9	300	

MATHEMATICIAN: _____

BEANS DIVISION RECORD 1

Beans Used ÷ Beans in = Cups Used Remainder Number Sentence
each cup

	3	7	1	
	2	5	1	
	3	2	1	
	6	3	2	
	4	3	1	
	5	2	4	
	6	3	3	
	5	4	1	
21		4	1	
22	5		2	
25	3		1	
	2	4	0	

MATHEMATICIAN: _____

BEANS DIVISION RECORD 1

Beans Used ÷ Beans in = Cups Used Remainder Number Sentence
 each cup

11	3			
12	3			
13	3			
14	3			
15	3			
16	3			
17	3			
18	3			
19	3			
20	3			
4	4			
5	4			

MATHEMATICIAN _____

BEANS DIVISION RECORD 1

Beans Used ÷ Beans in = Cups Used Remainder Number Sentence
each cup

15	5			
16	5			
17	5			
18	5			
19	5			
20	5			
6	6			
7	6			
8	6			
9	6			
10	6			
11	6			

MATHEMATICIAN: _____

BEANS DIVISION RECORD 2+

Bears Used	÷	Cups	=	Beans needed in each cup	Remainder	Number Sentence
10	÷	2	=	5	0	$10 \div 2 = 5$
10	÷	3	=	3	1	$10 \div 3 = 3 \text{ R } 1$
10	÷	4	=	2	2	$10 \div 4 = 2 \text{ R } 2$
10	÷	5	=	2	0	$10 \div 5 = 2$

in each cup				
70	7			
71	7			
72	7			
73	7			
74	7			
75	7			
76	7			
77	7			
78	7			
79	7			
80	8			
81	8			

MATHEMATICIAN: _____

BEANS DIVISION RECORD 2+

Beans Used	÷	Cups	=	Beans needed in each cup	Remainder	Number Sentence
10	÷	2	=	5	0	$10 \div 2 = 5$
10	÷	3	=	3	1	$10 \div 3 = 3 \text{ R } 1$
10	÷	4	=	2	2	$10 \div 4 = 2 \text{ R } 2$
10	÷	5	=	2	0	$10 \div 5 = 2$

in each cup				
82	8			
83	8			
84	8			
85	8			
86	8			
87	8			
88	8			
89	8			
90	9			
91	9			
92	9			
93	9			

MATHEMATICIAN: _____

BEANS DIVISION RECORD 2

Beans Used ÷ Cups = Beans needed Remainder Number Sentence
in each cup

4	2	2	0	4 2 = 2
5	2			
6	2			
7	2			
8	2			
9	2			
10	2			
11	2			
12	2			
13	2			
14	2			
15	2			
16	2			
17	2			
18	2			
19	2			
20	2			

MATHEMATICIAN: _____

BEANS DIVISION RECORD 2.

Beans Used ÷ Cups = Beans needed Remainder Number Sentence
in each cup

4	3			
5	3			
6	3			
7	3			
8	3			
9	3			
10	3			
11	3			
12	3			
13	3			
14	3			
15	3			
16	3			
17	3			
18	3			
19	3			
20	3			
21	3			

MATHEMATICIAN: _____

BEANS DIVISION RECORD 2

Beans Used \div Cups = Beans needed Remainder Number Sentence
in each cup

22	3			
23	3			
24	3			
25	3			
26	3			
27	3			
28	3			
29	3			
30	3			
4	4			
5	4			
6	4			

MATHEMATICIAN: _____

BEANS DIVISION RECORD 2

Beans Used ÷ Cups = Beans needed Remainder Number Sentence
in each cup

7	4			
8	4			
9	4			
10	4			
11	4			
12	4			
13	4			
14	4			
15	4			
16	4			
17	4			
18	4			

MATHEMATICIAN: _____

BEANS DIVISION RECORD 2

Beans Used ÷ Cups = Beans needed Remainder Number Sentence
in each cup

19	4			
20	4			
21	4			
22	4			
23	4			
24	4			
25	4			
26	4			
27	4			
28	4			
29	4			
30	4			

MATHEMATICIAN: _____

BEANS DIVISION RECORD 2

Beans Used \div **Cups** = **Beans needed** **Remainder** **Number Sentence**
in each cup

31	4			
32	4			
33	4			
34	4			
35	4			
36	4			
37	4			
38	4			
39	4			
40	4			
4	5			
5	5			

MATHEMATICIAN: _____

BEANS DIVISION RECORD 2

Beans Used **Cups** = **Beans needed** **Remainder** **Number Sentence**
in each cup

6	5			
7	5			
8	5			
9	5			
10	5			
11	5			
12	5			
13	5			
14	5			
15	5			
16	5			
17	5			

MATHEMATICIAN: _____

BEANS DIVISION RECORD 2

Beans Used ÷ Cups = Beans needed Remainder Number Sentence
in each cup

18	5			
19	5			
20	5			
21	5			
22	5			
23	5			
24	5			
25	5			
26	5			
27	5			
28	5			
29	5			

MATHEMATICIAN: _____

BEANS DIVISION RECORD 2

Beans Used ÷ Cups = Beans needed Remainder Number Sentence
in each cup

n/ each cup				
30	5			
31	5			
32	5			
33	5			
34	5			
35	5			
36	5			
37	5			
38	5			
39	5			
40	5			
41	5			

MATHEMATICIAN: _____

BEANS DIVISION RECORD 2

Beans Used	Cups	= Beans needed in each cup	Remainder	Number	Sentence
10	2	5	0	2	2 cups of 5 beans each = 10 beans
10	3	3	4	3	3 cups of 3 beans each = 9 beans, 4 beans left
10	4	2	6	4	4 cups of 2 beans each = 8 beans, 2 beans left
10	5	2	0	5	5 cups of 2 beans each = 10 beans

42	5			
43	5			
44	5			
45	5			
46	5			
47	5			
48	5			
49	5			
50	5			
4	6			
5	6			
6	6			

MATHEMATICIAN: _____

BEANS DIVISION RECORD 2

Beans Used ÷ Cups = Beans needed Remainder Number Sentence
in each cup

in each cup				
7	6			
8	6			
9	6			
10	6			
11	6			
12	6			
13	6			
14	6			
15	6			
16	6			
17	6			
18	6			

↓ ↓ COLUMNS ↓ ↓

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